

# TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

## ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Houston

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Houston, TX 77040

Tel: (713)690-4444

TestAmerica Job ID: 600-105998-1

Client Project/Site: CB&I Federal Services LLC . . – Houston

For:

CB&I Federal Services LLC

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2/11/2015 10:57:57 AM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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## Case Narrative

Client: CB&I Federal Services LLC  
Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

### Job ID: 600-105998-1

Laboratory: TestAmerica Houston

#### Narrative

##### Job Narrative 600-105998-1

#### Comments

No additional comments.

#### Receipt

The samples were received on 1/29/2015 5:19 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.8° C.

Except:

Method(s) 9040B: the following samples cannot be analyzed for pH because they are oils:

SludgeComp-2-012915 (600-105998-1), SludgeComp-3-012915 (600-105998-3), SludgeComp-5-012915 (600-105998-2)

#### GC/MS VOA

Method(s) 8260B: The following sample(s) was diluted due to the abundance of non-target analytes: SludgeComp-2-012915 (600-105998-1), SludgeComp-5-012915 (600-105998-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The following sample was diluted due to the nature of the sample matrix: SludgeComp-2-012915 (600-105998-1), SludgeComp-3-012915 (600-105998-3), SludgeComp-5-012915 (600-105998-2). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: Surrogate recovery for the following sample was outside control limits: SludgeComp-2-012915 (600-105998-1), SludgeComp-3-012915 (600-105998-3), SludgeComp-5-012915 (600-105998-2). Surrogate diluted out.

Method(s) 8260B: The continuing calibration verification (CCV) associated with batch 600-155329 recovered above the upper control limit for Chloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC/MS Semi VOA

Method(s) 8270C: The laboratory control sample (LCS) for batch 155212 recovered outside control limits for the following analyte: 4-Nitroaniline. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

Method(s) 8270C: The following sample(s) was diluted due to the nature of the sample matrix: SludgeComp-2-012915 (600-105998-1), SludgeComp-3-012915 (600-105998-3), SludgeComp-5-012915 (600-105998-2), : (600-105998-3 MS), (600-105998-2 MS). Elevated reporting limits (RLs) are provided.

Method(s) 8270C: The following sample(s) required a dilution due to the nature of the sample matrix: SludgeComp-2-012915 (600-105998-1), SludgeComp-3-012915 (600-105998-3), SludgeComp-5-012915 (600-105998-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) 8270C: The matrix spike (MS) recoveries for 155258 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8270C: Due to the high concentration of target analytes and matrix interference, the matrix spike (MS) for 155349 could not be evaluated for accuracy. The associated laboratory control sample (LCS) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### HPLC/IC

Method(s) 9056A: The following samples were diluted due to the nature of the sample matrix: (600-105998-2), (600-105998-3),

## Case Narrative

Client: CB&I Federal Services LLC  
Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

### Job ID: 600-105998-1 (Continued)

#### Laboratory: TestAmerica Houston (Continued)

(600-105998-3 DU), SludgeComp-3-012915 (600-105998-3), SludgeComp-5-012915 (600-105998-2). Elevated reporting limits (RLs) are provided.

Method(s) 9056A: Due to the nature of the sample matrix, a matrix spike / matrix spike duplicate (MS/MSD) was not analyzed with batch 226474. However, the laboratory control sample / laboratory control sample duplicate (LCS/LCSD) recoveries were within the acceptance limits.

(LCS 490-226474/5), (LCSD 490-226474/6)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### GC Semi VOA

Method(s) TX 1005: The following sample(s) was diluted due to the nature of the sample matrix: SludgeComp-2-012915 (600-105998-1), SludgeComp-3-012915 (600-105998-3), SludgeComp-5-012915 (600-105998-2). Elevated reporting limits (RLs) are provided.

Method(s) TX 1005: The following sample(s) required a dilution due to the nature of the sample matrix: SludgeComp-3-012915 (600-105998-3), SludgeComp-5-012915 (600-105998-2). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method(s) TX 1005: Re-run to confirm observation. Sample seems to be non-homogenous. 3rd range hits on MSD; ND on MS and background.

(600-106056-3 MSD)

Method(s) 8081A: Surrogate recovery for the following sample(s) was outside control limits: SludgeComp-5-012915 (600-105998-2), SludgeComp-3-012915 (600-105998-3). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8081A: The following sample(s) was diluted due to oily color: SludgeComp-5-012915 (600-105998-2), SludgeComp-3-012915 (600-105998-3). Elevated reporting limits (RL) are provided.

Method(s) 8151A: Surrogate recovery for the following sample(s) was outside control limits: SludgeComp-3-012915 (600-105998-3), SludgeComp-5-012915 (600-105998-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8151A: The following sample(s) was diluted due to oily color: SludgeComp-3-012915 (600-105998-3), SludgeComp-5-012915 (600-105998-2). Elevated reporting limits (RL) are provided.

Method(s) 8151A: The initial calibration verification (ICV) result for batch 155311 was above the upper control limit. Sample results were non-detects, and have been reported as qualified data.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### Metals

Method(s) 7471A: The method blank for batch 155080 contained Merucry above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The method blank for batch 155275 contained Sodium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The leachate blank for batch 155165 contained Silver, Barium, and Sodium above the method detection limit. These target analytes concentrations were less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 6010B: The leachate blank for batch 155166 and 155282 contained Barium above the method detection limit. This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

## Case Narrative

Client: CB&I Federal Services LLC  
Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

### Job ID: 600-105998-1 (Continued)

#### Laboratory: TestAmerica Houston (Continued)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### General Chemistry

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

#### Organic Prep

Method(s) 1311: Sample(s) (600-105998-1), (600-105998-2), (600-105998-3), SludgeComp-2-012915 (600-105998-1), SludgeComp-3-012915 (600-105998-3), SludgeComp-5-012915 (600-105998-2) was leached at Test America Houston.

Method(s) 3580A: The following sample(s) required a Florisil clean-up, via EPA Method 3620B, to reduce matrix interferences:  
SludgeComp-3-012915 (600-105998-3), SludgeComp-5-012915 (600-105998-2).

Method(s) 3510C: Due to the matrix, the following sample(s) could not be concentrated to the final method required volume:  
SludgeComp-2-012915 (600-105998-1), (600-105998-2 MS), SludgeComp-5-012915 (600-105998-2). The reporting limits (RLs) are elevated proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

#### VOA Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

## Method Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL PEN
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL HOU
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL HOU
8081A	Organochlorine Pesticides (GC)	SW846	TAL HOU
8151A	Herbicides (GC)	SW846	TAL HOU
TX 1005	Texas - Total Petroleum Hydrocarbon (GC)	TCEQ	TAL HOU
9056A	Anions, Ion Chromatography	SW846	TAL NSH
6010B	Metals (ICP)	SW846	TAL NSH
6010B	Metals (ICP)	SW846	TAL HOU
7470A	Mercury (CVAA)	SW846	TAL HOU
7471A	Mercury (CVAA)	SW846	TAL HOU
1010	Ignitability, Pensky-Martens Closed-Cup Method	SW846	TAL HOU
9012	Cyanide, Reactive	SW846	TAL HOU
9023	Organic Halides, Extractable (EOX)	SW846	TAL CAN
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	TAL HOU
D1796	Water and Sediment in Fuel Oils	ASTM	TAL CC
D240-87	Heat of Combustion	ASTM	TAL HOU
SM 2540D	Solids, Total Suspended (TSS)	SM	TAL HOU

### Protocol References:

ASTM = ASTM International

SM = "Standard Methods For The Examination Of Water And Wastewater",

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TCEQ = Texas Commission of Environmental Quality

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

## Sample Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
600-105998-1	SludgeComp-2-012915	Waste	01/29/15 12:34	01/29/15 17:19
600-105998-2	SludgeComp-5-012915	Waste	01/29/15 13:20	01/29/15 17:19
600-105998-3	SludgeComp-3-012915	Waste	01/29/15 14:19	01/29/15 17:19

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# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-2-012915**

**Lab Sample ID: 600-105998-1**

**Matrix: Waste**

Date Collected: 01/29/15 12:34

Date Received: 01/29/15 17:19

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	16.6	U	100	16.6	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
<b>Benzene</b>	<b>6.69</b>	<b>J</b>	50.0	6.30	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Chlorobromomethane	17.8	U	50.0	17.8	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Bromoform	13.7	U	50.0	13.7	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Bromomethane	8.30	U	100	8.30	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
2-Butanone (MEK)	19.0	U	100	19.0	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Carbon disulfide	5.50	U	100	5.50	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Carbon tetrachloride	11.3	U	50.0	11.3	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Dibromochloromethane	9.40	U	50.0	9.40	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Chlorobenzene	9.60	U	50.0	9.60	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Chloroethane	14.0	U	100	14.0	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Chloroform	6.60	U	50.0	6.60	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Chloromethane	16.6	U	100	16.6	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
1,1-Dichloroethane	8.70	U	50.0	8.70	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
1,2-Dichloroethane	9.00	U	50.0	9.00	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
1,1-Dichloroethene	12.2	U	50.0	12.2	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
cis-1,2-Dichloroethene	8.30	U	50.0	8.30	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
trans-1,2-Dichloroethene	11.4	U	50.0	11.4	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
1,2-Dichloropropane	7.10	U	50.0	7.10	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
cis-1,3-Dichloropropene	5.40	U	50.0	5.40	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
trans-1,3-Dichloropropene	5.80	U	50.0	5.80	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
<b>Ethylbenzene</b>	<b>136</b>		50.0	10.2	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
2-Hexanone	10.1	U	100	10.1	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Methylene Chloride	21.9	U	100	21.9	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
4-Methyl-2-pentanone (MIBK)	14.7	U	100	14.7	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Styrene	7.10	U	50.0	7.10	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
1,1,2,2-Tetrachloroethane	8.70	U	50.0	8.70	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Tetrachloroethene	7.10	U	50.0	7.10	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
<b>Toluene</b>	<b>555</b>		50.0	13.8	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
1,1,1-Trichloroethane	7.40	U	50.0	7.40	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
1,1,2-Trichloroethane	7.30	U	400	7.30	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Trichloroethene	14.0	U	50.0	14.0	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Vinyl acetate	9.30	U	100	9.30	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Vinyl chloride	9.00	U	100	9.00	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
<b>o-Xylene</b>	<b>250</b>		50.0	11.3	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
<b>m-Xylene &amp; p-Xylene</b>	<b>606</b>		50.0	15.2	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
<b>Xylenes, Total</b>	<b>856</b>		50.0	11.3	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
Bromodichloromethane	6.60	U	50.0	6.60	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
1,2-Dichloroethene, Total	19.0	U	100	19.0	mg/Kg		02/02/15 10:00	02/04/15 20:44	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	0	X	50 - 130				02/02/15 10:00	02/04/15 20:44	20
Dibromofluoromethane	0	X	68 - 140				02/02/15 10:00	02/04/15 20:44	20
4-Bromofluorobenzene	0	X	57 - 140				02/02/15 10:00	02/04/15 20:44	20
1,2-Dichloroethane-d4 (Surr)	0	X	61 - 130				02/02/15 10:00	02/04/15 20:44	20

## Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.747</b>	<b>J</b>	1.00	0.0680	mg/L			02/06/15 12:19	200
Carbon tetrachloride	0.100	U	1.00	0.100	mg/L			02/06/15 12:19	200

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-2-012915**

**Lab Sample ID: 600-105998-1**

Date Collected: 01/29/15 12:34

Matrix: Waste

Date Received: 01/29/15 17:19

## Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	0.100	U	1.00	0.100	mg/L			02/06/15 12:19	200
<b>Chloroform</b>	<b>0.548</b>	<b>J</b>	1.00	0.120	mg/L			02/06/15 12:19	200
1,4-Dichlorobenzene	0.128	U	1.00	0.128	mg/L			02/06/15 12:19	200
1,2-Dichloroethane	0.100	U	1.00	0.100	mg/L			02/06/15 12:19	200
1,1-Dichloroethene	0.100	U	1.00	0.100	mg/L			02/06/15 12:19	200
<b>2-Butanone (MEK)</b>	<b>3.11</b>	<b>J</b>	5.00	0.520	mg/L			02/06/15 12:19	200
<b>Tetrachloroethylene</b>	<b>0.117</b>	<b>J</b>	1.00	0.116	mg/L			02/06/15 12:19	200
Trichloroethene	0.100	U	1.00	0.100	mg/L			02/06/15 12:19	200
Vinyl chloride	0.100	U	1.00	0.100	mg/L			02/06/15 12:19	200
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	101		78 - 118					02/06/15 12:19	200
Dibromofluoromethane	111		81 - 121					02/06/15 12:19	200
Toluene-d8 (Surr)	88		80 - 120					02/06/15 12:19	200

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	551	U	961	551	mg/Kg			02/03/15 10:48	10
Acenaphthylene	561	U	961	561	mg/Kg			02/03/15 10:48	10
Anthracene	604	U	961	604	mg/Kg			02/03/15 10:48	10
Benzidine	2400	U	9610	2400	mg/Kg			02/03/15 10:48	10
Benzo[a]anthracene	604	U	961	604	mg/Kg			02/03/15 10:48	10
Benzo[b]fluoranthene	56.3	U	961	56.3	mg/Kg			02/03/15 10:48	10
Benzo[k]fluoranthene	85.7	U	961	85.7	mg/Kg			02/03/15 10:48	10
Benzo[g,h,i]perylene	511	U	961	511	mg/Kg			02/03/15 10:48	10
Benzo[a]pyrene	539	U	961	539	mg/Kg			02/03/15 10:48	10
Bis(2-chloroethoxy)methane	542	U	961	542	mg/Kg			02/03/15 10:48	10
Bis(2-chloroethyl)ether	96.1	U	961	96.1	mg/Kg			02/03/15 10:48	10
Bis(2-ethylhexyl) phthalate	583	U	961	583	mg/Kg			02/03/15 10:48	10
4-Bromophenyl phenyl ether	583	U	961	583	mg/Kg			02/03/15 10:48	10
Butyl benzyl phthalate	585	U	961	585	mg/Kg			02/03/15 10:48	10
4-Chloroaniline	192	U	961	192	mg/Kg			02/03/15 10:48	10
2-Chloronaphthalene	626	U	961	626	mg/Kg			02/03/15 10:48	10
4-Chlorophenyl phenyl ether	578	U	961	578	mg/Kg			02/03/15 10:48	10
Carbazole	594	U	961	594	mg/Kg			02/03/15 10:48	10
Chrysene	588	U	961	588	mg/Kg			02/03/15 10:48	10
Di-n-butyl phthalate	620	U	961	620	mg/Kg			02/03/15 10:48	10
Dibenz(a,h)anthracene	553	U	961	553	mg/Kg			02/03/15 10:48	10
Dibenzofuran	573	U	961	573	mg/Kg			02/03/15 10:48	10
1,2-Dichlorobenzene	76.6	U	961	76.6	mg/Kg			02/03/15 10:48	10
1,3-Dichlorobenzene	519	U	961	519	mg/Kg			02/03/15 10:48	10
1,4-Dichlorobenzene	67.2	U	961	67.2	mg/Kg			02/03/15 10:48	10
3,3'-Dichlorobenzidine	185	U	1920	185	mg/Kg			02/03/15 10:48	10
Diethyl phthalate	595	U	961	595	mg/Kg			02/03/15 10:48	10
Dimethyl phthalate	582	U	961	582	mg/Kg			02/03/15 10:48	10
2,4-Dinitrotoluene	95.9	U	961	95.9	mg/Kg			02/03/15 10:48	10
2,6-Dinitrotoluene	611	U	961	611	mg/Kg			02/03/15 10:48	10
Di-n-octyl phthalate	622	U	961	622	mg/Kg			02/03/15 10:48	10
Fluoranthene	614	U	961	614	mg/Kg			02/03/15 10:48	10
Fluorene	592	U	961	592	mg/Kg			02/03/15 10:48	10

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-2-012915**

**Lab Sample ID: 600-105998-1**

Date Collected: 01/29/15 12:34

Matrix: Waste

Date Received: 01/29/15 17:19

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	606	U	961	606	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
Hexachlorocyclopentadiene	64.9	U	961	64.9	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
Hexachloroethane	87.1	U	961	87.1	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
Hexachlorobutadiene	98.8	U	961	98.8	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
Indeno[1,2,3-cd]pyrene	527	U	961	527	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
Isophorone	565	U	961	565	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
2-Methylnaphthalene	551	U	961	551	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
<b>Naphthalene</b>	<b>270</b>	<b>J</b>	961	56.2	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
2-Nitroaniline	567	U	4660	567	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
3-Nitroaniline	616	U	4660	616	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
4-Nitroaniline	525	U *	4660	525	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
Nitrobenzene	138	U	961	138	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
N-Nitrosodimethylamine	278	U	961	278	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
N-Nitrosodiphenylamine	91.8	U	961	91.8	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
N-Nitrosodi-n-propylamine	83.3	U	961	83.3	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
Phenanthrene	591	U	961	591	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
Pyrene	643	U	961	643	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
1,2,4-Trichlorobenzene	613	U	961	613	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
Benzyl alcohol	182	U	961	182	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
4-Chloro-3-methylphenol	559	U	961	559	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
2-Chlorophenol	67.9	U	961	67.9	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
2-Methylphenol	110	U	961	110	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
3 & 4 Methylphenol	87.6	U	1920	87.6	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
2,4-Dichlorophenol	532	U	961	532	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
2,4-Dimethylphenol	185	U	961	185	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
4,6-Dinitro-2-methylphenol	602	U	4660	602	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
2,4-Dinitrophenol	373	U	4660	373	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
2-Nitrophenol	524	U	961	524	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
4-Nitrophenol	524	U	4660	524	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
Pentachlorophenol	64.4	U	4660	64.4	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
Phenol	109	U	961	109	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
2,4,5-Trichlorophenol	181	U	961	181	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
2,4,6-Trichlorophenol	525	U	961	525	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
bis (2-Chloroisopropyl) ether	101	U	961	101	mg/Kg		02/03/15 10:48	02/03/15 21:24	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5	0	X	46 - 130				02/03/15 10:48	02/03/15 21:24	10
2-Fluorophenol	0	X	45 - 130				02/03/15 10:48	02/03/15 21:24	10
2-Fluorobiphenyl	0	X	42 - 130				02/03/15 10:48	02/03/15 21:24	10
2,4,6-Tribromophenol	0	X	25 - 130				02/03/15 10:48	02/03/15 21:24	10
Terphenyl-d14	0	X	51 - 130				02/03/15 10:48	02/03/15 21:24	10
Phenol-d5 (Surr)	0	X	48 - 130				02/03/15 10:48	02/03/15 21:24	10

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.267	U	1.50	0.267	mg/L		02/03/15 17:06	02/04/15 20:33	10
2,4-Dinitrotoluene	0.395	U	1.50	0.395	mg/L		02/03/15 17:06	02/04/15 20:33	10
2,4,5-Trichlorophenol	0.407	U	1.50	0.407	mg/L		02/03/15 17:06	02/04/15 20:33	10
2,4,6-Trichlorophenol	0.388	U	1.50	0.388	mg/L		02/03/15 17:06	02/04/15 20:33	10
<b>2-Methylphenol</b>	<b>0.460</b>	<b>J</b>	1.50	0.271	mg/L		02/03/15 17:06	02/04/15 20:33	10

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-2-012915**

**Lab Sample ID: 600-105998-1**

Date Collected: 01/29/15 12:34

Matrix: Waste

Date Received: 01/29/15 17:19

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>3 &amp; 4 Methylphenol</b>	<b>0.547</b>	<b>J</b>	3.00	0.282	mg/L		02/03/15 17:06	02/04/15 20:33	10
Hexachlorobenzene	0.389	U	1.50	0.389	mg/L		02/03/15 17:06	02/04/15 20:33	10
Hexachlorobutadiene	0.317	U	1.50	0.317	mg/L		02/03/15 17:06	02/04/15 20:33	10
Hexachloroethane	0.329	U	1.50	0.329	mg/L		02/03/15 17:06	02/04/15 20:33	10
Nitrobenzene	0.372	U	1.50	0.372	mg/L		02/03/15 17:06	02/04/15 20:33	10
Pentachlorophenol	0.693	U	7.50	0.693	mg/L		02/03/15 17:06	02/04/15 20:33	10
Pyridine	0.325	U	1.50	0.325	mg/L		02/03/15 17:06	02/04/15 20:33	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>Nitrobenzene-d5</i>	0	X	35 - 130		02/03/15 17:06	02/04/15 20:33
<i>2-Fluorophenol</i>	0	X	10 - 130		02/03/15 17:06	02/04/15 20:33
<i>2-Fluorobiphenyl</i>	0	X	41 - 130		02/03/15 17:06	02/04/15 20:33
<i>2,4,6-Tribromophenol</i>	0	X	12 - 138		02/03/15 17:06	02/04/15 20:33
<i>Terphenyl-d14</i>	0	X	43 - 130		02/03/15 17:06	02/04/15 20:33
<i>Phenol-d5 (Surr)</i>	0	X	10 - 130		02/03/15 17:06	02/04/15 20:33

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C6-C12</b>	<b>10400</b>		500	190	mg/Kg		02/02/15 15:15	02/03/15 07:57	5
<b>&gt;C12-C28</b>	<b>25000</b>		500	203	mg/Kg		02/02/15 15:15	02/03/15 07:57	5
<b>&gt;C28-C35</b>	<b>6870</b>		500	203	mg/Kg		02/02/15 15:15	02/03/15 07:57	5
<b>C6-C35</b>	<b>42300</b>		500	190	mg/Kg		02/02/15 15:15	02/03/15 07:57	5

  

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
<i>o-Terphenyl</i>	101		70 - 130		02/02/15 15:15	02/03/15 07:57

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	87.4	U	194	87.4	mg/Kg		02/03/15 15:28	02/03/15 20:24	100
<b>Barium</b>	<b>350</b>		194	155	mg/Kg		02/03/15 15:28	02/03/15 20:24	100
Cadmium	9.71	U	97.1	9.71	mg/Kg		02/03/15 15:28	02/03/15 20:24	100
Chromium	58.3	U	97.1	58.3	mg/Kg		02/03/15 15:28	02/03/15 20:24	100
Lead	48.5	U	97.1	48.5	mg/Kg		02/03/15 15:28	02/03/15 20:24	100
Selenium	97.1	U	194	97.1	mg/Kg		02/03/15 15:28	02/03/15 20:24	100
Silver	48.5	U	97.1	48.5	mg/Kg		02/03/15 15:28	02/03/15 20:24	100
Sodium	971	U	1940	971	mg/Kg		02/03/15 15:28	02/04/15 14:54	10
<b>Sulfur</b>	<b>10600</b>		4850	1940	mg/Kg		02/03/15 15:28	02/03/15 20:24	100

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0328	U	0.100	0.0328	mg/L		02/03/15 16:48	02/04/15 15:57	1
<b>Barium</b>	<b>0.389</b>	<b>B</b>	0.200	0.0220	mg/L		02/03/15 16:48	02/04/15 15:57	1
Cadmium	0.00350	U	0.0500	0.00350	mg/L		02/03/15 16:48	02/04/15 17:59	1
Chromium	0.0155	U	0.100	0.0155	mg/L		02/03/15 16:48	02/04/15 15:57	1
Lead	0.0290	U	0.100	0.0290	mg/L		02/03/15 16:48	02/04/15 15:57	1
Selenium	0.0417	U	0.400	0.0417	mg/L		02/03/15 16:48	02/04/15 15:57	1
Silver	0.0125	U	0.100	0.0125	mg/L		02/03/15 16:48	02/04/15 15:57	1

## Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000114</b>	<b>J</b>	0.000200	0.0000820	mg/L		02/04/15 06:28	02/04/15 11:09	1

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-2-012915**

**Lab Sample ID: 600-105998-1**

Matrix: Waste

Date Collected: 01/29/15 12:34

Date Received: 01/29/15 17:19

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.487	B	0.0167	0.00352	mg/Kg		02/02/15 07:22	02/02/15 10:43	1

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>186		1.00	1.00	Degrees F			02/04/15 10:15	1
Cyanide, Reactive	0.0873	U	0.255	0.0873	mg/Kg		02/02/15 10:00	02/03/15 15:59	1
Halogens, Extractable Organic	114	J	202	34.3	mg/Kg		02/05/15 05:38	02/05/15 10:22	1
Sulfide, Reactive	40.8	J	51.0	14.3	mg/Kg		02/02/15 10:00	02/03/15 13:29	1
Percent Water	86.0				%			02/05/15 16:00	1
Total Suspended Solids	51900		1000	1000	mg/L			01/31/15 08:18	1

**Client Sample ID: SludgeComp-5-012915**

**Lab Sample ID: 600-105998-2**

Matrix: Waste

Date Collected: 01/29/15 13:20

Date Received: 01/29/15 17:19

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	16.6	U	100	16.6	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
<b>Benzene</b>	<b>74.5</b>		50.0	6.30	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Chlorobromomethane	17.8	U	50.0	17.8	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Bromoform	13.7	U	50.0	13.7	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Bromomethane	8.30	U	100	8.30	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
2-Butanone (MEK)	19.0	U	100	19.0	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Carbon disulfide	5.50	U	100	5.50	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Carbon tetrachloride	11.3	U	50.0	11.3	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Dibromochloromethane	9.40	U	50.0	9.40	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Chlorobenzene	9.60	U	50.0	9.60	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Chloroethane	14.0	U	100	14.0	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Chloroform	6.60	U	50.0	6.60	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Chloromethane	16.6	U	100	16.6	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
1,1-Dichloroethane	8.70	U	50.0	8.70	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
1,2-Dichloroethane	9.00	U	50.0	9.00	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
1,1-Dichloroethene	12.2	U	50.0	12.2	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
cis-1,2-Dichloroethene	8.30	U	50.0	8.30	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
trans-1,2-Dichloroethene	11.4	U	50.0	11.4	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
1,2-Dichloropropane	7.10	U	50.0	7.10	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
cis-1,3-Dichloropropene	5.40	U	50.0	5.40	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
trans-1,3-Dichloropropene	5.80	U	50.0	5.80	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
<b>Ethylbenzene</b>	<b>194</b>		50.0	10.2	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
2-Hexanone	10.1	U	100	10.1	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
<b>Methylene Chloride</b>	<b>23.7</b>	<b>J</b>	100	21.9	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
4-Methyl-2-pentanone (MIBK)	14.7	U	100	14.7	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
<b>Styrene</b>	<b>62.9</b>		50.0	7.10	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
1,1,2,2-Tetrachloroethane	8.70	U	50.0	8.70	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Tetrachloroethene	7.10	U	50.0	7.10	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
<b>Toluene</b>	<b>568</b>		50.0	13.8	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
1,1,1-Trichloroethane	7.40	U	50.0	7.40	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
1,1,2-Trichloroethane	7.30	U	400	7.30	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Trichloroethene	14.0	U	50.0	14.0	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Vinyl acetate	9.30	U	100	9.30	mg/Kg		02/02/15 10:00	02/04/15 21:12	20

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-5-012915**

**Lab Sample ID: 600-105998-2**

Date Collected: 01/29/15 13:20

Matrix: Waste

Date Received: 01/29/15 17:19

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	9.00	U	100	9.00	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
<b>o-Xylene</b>	<b>300</b>		50.0	11.3	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
<b>m-Xylene &amp; p-Xylene</b>	<b>760</b>		50.0	15.2	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
<b>Xylenes, Total</b>	<b>1060</b>		50.0	11.3	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
Bromodichloromethane	6.60	U	50.0	6.60	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
1,2-Dichloroethene, Total	19.0	U	100	19.0	mg/Kg		02/02/15 10:00	02/04/15 21:12	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	0	X	50 - 130				02/02/15 10:00	02/04/15 21:12	20
Dibromofluoromethane	0	X	68 - 140				02/02/15 10:00	02/04/15 21:12	20
4-Bromofluorobenzene	0	X	57 - 140				02/02/15 10:00	02/04/15 21:12	20
1,2-Dichloroethane-d4 (Surr)	0	X	61 - 130				02/02/15 10:00	02/04/15 21:12	20

## Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>2.31</b>		0.250	0.0170	mg/L			02/06/15 11:55	50
Carbon tetrachloride	0.0250	U	0.250	0.0250	mg/L			02/06/15 11:55	50
<b>Chlorobenzene</b>	<b>0.0294</b>	<b>J</b>	0.250	0.0250	mg/L			02/06/15 11:55	50
<b>Chloroform</b>	<b>0.186</b>	<b>J</b>	0.250	0.0300	mg/L			02/06/15 11:55	50
1,4-Dichlorobenzene	0.0320	U	0.250	0.0320	mg/L			02/06/15 11:55	50
<b>1,2-Dichloroethane</b>	<b>0.0615</b>	<b>J</b>	0.250	0.0250	mg/L			02/06/15 11:55	50
1,1-Dichloroethene	0.0250	U	0.250	0.0250	mg/L			02/06/15 11:55	50
<b>2-Butanone (MEK)</b>	<b>6.34</b>		1.25	0.130	mg/L			02/06/15 11:55	50
<b>Tetrachloroethene</b>	<b>0.0857</b>	<b>J</b>	0.250	0.0290	mg/L			02/06/15 11:55	50
<b>Trichloroethene</b>	<b>0.0295</b>	<b>J</b>	0.250	0.0250	mg/L			02/06/15 11:55	50
Vinyl chloride	0.0250	U	0.250	0.0250	mg/L			02/06/15 11:55	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	97		78 - 118					02/06/15 11:55	50
Dibromofluoromethane	112		81 - 121					02/06/15 11:55	50
Toluene-d8 (Surr)	88		80 - 120					02/06/15 11:55	50

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	535	U	934	535	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
Acenaphthylene	545	U	934	545	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
Anthracene	587	U	934	587	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
Benzidine	2330	U	9340	2330	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
Benzo[a]anthracene	587	U	934	587	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
Benzo[b]fluoranthene	54.7	U	934	54.7	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
Benzo[k]fluoranthene	83.2	U	934	83.2	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
Benzo[g,h,i]perylene	496	U	934	496	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
Benzo[a]pyrene	524	U	934	524	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
Bis(2-chloroethoxy)methane	527	U	934	527	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
Bis(2-chloroethyl)ether	93.3	U	934	93.3	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
Bis(2-ethylhexyl) phthalate	566	U	934	566	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
4-Bromophenyl phenyl ether	566	U	934	566	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
Butyl benzyl phthalate	568	U	934	568	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
4-Chloroaniline	187	U	934	187	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
2-Chloronaphthalene	608	U	934	608	mg/Kg		02/03/15 10:48	02/03/15 21:55	10

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-5-012915**

Date Collected: 01/29/15 13:20

Date Received: 01/29/15 17:19

**Lab Sample ID: 600-105998-2**

Matrix: Waste

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorophenyl phenyl ether	562	U	934	562	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Carbazole	577	U	934	577	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Chrysene	571	U	934	571	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Di-n-butyl phthalate	603	U	934	603	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Dibenz(a,h)anthracene	537	U	934	537	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Dibenzofuran	557	U	934	557	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
1,2-Dichlorobenzene	74.4	U	934	74.4	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
1,3-Dichlorobenzene	504	U	934	504	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
1,4-Dichlorobenzene	65.3	U	934	65.3	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
3,3'-Dichlorobenzidine	180	U	1870	180	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Diethyl phthalate	578	U	934	578	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Dimethyl phthalate	565	U	934	565	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
2,4-Dinitrotoluene	93.1	U	934	93.1	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
2,6-Dinitrotoluene	593	U	934	593	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Di-n-octyl phthalate	604	U	934	604	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Fluoranthene	597	U	934	597	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Fluorene	575	U	934	575	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Hexachlorobenzene	589	U	934	589	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Hexachlorocyclopentadiene	63.0	U	934	63.0	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Hexachloroethane	84.7	U	934	84.7	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Hexachlorobutadiene	96.0	U	934	96.0	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Indeno[1,2,3-cd]pyrene	512	U	934	512	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Isophorone	549	U	934	549	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
2-Methylnaphthalene	535	U	934	535	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
<b>Naphthalene</b>	<b>773</b>	<b>J</b>	934	54.6	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
2-Nitroaniline	551	U	4530	551	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
3-Nitroaniline	599	U	4530	599	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
4-Nitroaniline	511	U *	4530	511	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Nitrobenzene	134	U	934	134	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
N-Nitrosodimethylamine	270	U	934	270	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
<b>N-Nitrosodiphenylamine</b>	<b>100</b>	<b>J</b>	934	89.2	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
N-Nitrosodi-n-propylamine	80.9	U	934	80.9	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Phenanthrene	575	U	934	575	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Pyrene	625	U	934	625	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
1,2,4-Trichlorobenzene	596	U	934	596	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Benzyl alcohol	176	U	934	176	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
4-Chloro-3-methylphenol	544	U	934	544	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
2-Chlorophenol	65.9	U	934	65.9	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
2-Methylphenol	107	U	934	107	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
3 & 4 Methylphenol	85.1	U	1870	85.1	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
2,4-Dichlorophenol	517	U	934	517	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
2,4-Dimethylphenol	180	U	934	180	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
4,6-Dinitro-2-methylphenol	585	U	4530	585	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
2,4-Dinitrophenol	362	U	4530	362	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
2-Nitrophenol	509	U	934	509	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
4-Nitrophenol	509	U	4530	509	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Pentachlorophenol	62.6	U	4530	62.6	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
Phenol	106	U	934	106	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	
2,4,5-Trichlorophenol	176	U	934	176	mg/Kg	02/03/15 10:48	02/03/15 21:55	10	

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-5-012915**

**Lab Sample ID: 600-105998-2**

**Matrix: Waste**

Date Collected: 01/29/15 13:20

Date Received: 01/29/15 17:19

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,6-Trichlorophenol	510	U	934	510	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
bis (2-Chloroisopropyl) ether	98.0	U	934	98.0	mg/Kg		02/03/15 10:48	02/03/15 21:55	10
<b>Surrogate</b>									
Nitrobenzene-d5	0	X	46 - 130				02/03/15 10:48	02/03/15 21:55	10
2-Fluorophenol	0	X	45 - 130				02/03/15 10:48	02/03/15 21:55	10
2-Fluorobiphenyl	0	X	42 - 130				02/03/15 10:48	02/03/15 21:55	10
2,4,6-Tribromophenol	0	X	25 - 130				02/03/15 10:48	02/03/15 21:55	10
Terphenyl-d14	0	X	51 - 130				02/03/15 10:48	02/03/15 21:55	10
Phenol-d5 (Surr)	0	X	48 - 130				02/03/15 10:48	02/03/15 21:55	10

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.178	U	1.00	0.178	mg/L		02/04/15 12:21	02/05/15 10:52	10
2,4-Dinitrotoluene	0.263	U	1.00	0.263	mg/L		02/04/15 12:21	02/05/15 10:52	10
2,4,5-Trichlorophenol	0.271	U	1.00	0.271	mg/L		02/04/15 12:21	02/05/15 10:52	10
2,4,6-Trichlorophenol	0.259	U	1.00	0.259	mg/L		02/04/15 12:21	02/05/15 10:52	10
<b>2-Methylphenol</b>	<b>0.377 J</b>		1.00	0.181	mg/L		02/04/15 12:21	02/05/15 10:52	10
<b>3 &amp; 4 Methylphenol</b>	<b>1.09 J</b>		2.00	0.188	mg/L		02/04/15 12:21	02/05/15 10:52	10
Hexachlorobenzene	0.259	U	1.00	0.259	mg/L		02/04/15 12:21	02/05/15 10:52	10
Hexachlorobutadiene	0.212	U	1.00	0.212	mg/L		02/04/15 12:21	02/05/15 10:52	10
Hexachloroethane	0.220	U	1.00	0.220	mg/L		02/04/15 12:21	02/05/15 10:52	10
Nitrobenzene	0.248	U	1.00	0.248	mg/L		02/04/15 12:21	02/05/15 10:52	10
Pentachlorophenol	0.462	U	5.00	0.462	mg/L		02/04/15 12:21	02/05/15 10:52	10
Pyridine	0.216	U	1.00	0.216	mg/L		02/04/15 12:21	02/05/15 10:52	10
<b>Surrogate</b>									
Nitrobenzene-d5	78		35 - 130				02/04/15 12:21	02/05/15 10:52	10
2-Fluorophenol	35		10 - 130				02/04/15 12:21	02/05/15 10:52	10
2-Fluorobiphenyl	74		41 - 130				02/04/15 12:21	02/05/15 10:52	10
2,4,6-Tribromophenol	65		12 - 138				02/04/15 12:21	02/05/15 10:52	10
Terphenyl-d14	80		43 - 130				02/04/15 12:21	02/05/15 10:52	10
Phenol-d5 (Surr)	29		10 - 130				02/04/15 12:21	02/05/15 10:52	10

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.446	U	0.908	0.446	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
4,4'-DDE	0.399	U	0.908	0.399	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
4,4'-DDT	0.509	U	0.908	0.509	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
Aldrin	0.361	U	0.468	0.361	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
alpha-BHC	0.275	U	0.468	0.275	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
beta-BHC	0.281	U	0.468	0.281	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
Chlordane (n.o.s.)	0.413	U	9.08	0.413	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
delta-BHC	0.234	U	0.468	0.234	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
Dieldrin	0.383	U	0.908	0.383	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
Endosulfan I	0.275	U	0.468	0.275	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
Endosulfan II	0.416	U	0.468	0.416	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
Endosulfan sulfate	0.462	U	0.908	0.462	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
Endrin	0.421	U	0.908	0.421	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
Endrin aldehyde	0.429	U	0.908	0.429	mg/Kg		02/03/15 11:11	02/03/15 12:53	10

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-5-012915**

**Lab Sample ID: 600-105998-2**

Date Collected: 01/29/15 13:20

Matrix: Waste

Date Received: 01/29/15 17:19

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC (Lindane)	0.256	U	0.468	0.256	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
Heptachlor	0.256	U	0.468	0.256	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
Heptachlor epoxide	0.322	U	0.468	0.322	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
Methoxychlor	2.22	U	4.68	2.22	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
Toxaphene	20.1	U	46.8	20.1	mg/Kg		02/03/15 11:11	02/03/15 12:53	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	138		47 - 177				02/03/15 11:11	02/03/15 12:53	10
Tetrachloro-m-xylene	523	X	50 - 143				02/03/15 11:11	02/03/15 12:53	10

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dicamba	0.217	U	1.89	0.217	mg/Kg		02/03/15 12:09	02/04/15 14:17	10
Mecoprop	21.6	U	18.9	21.6	mg/Kg		02/03/15 12:09	02/04/15 14:17	10
MCPA	30.7	U	18.9	30.7	mg/Kg		02/03/15 12:09	02/04/15 14:17	10
Dichlorprop	0.212	U	1.89	0.212	mg/Kg		02/03/15 12:09	02/04/15 14:17	10
2,4-D	0.160	U	1.89	0.160	mg/Kg		02/03/15 12:09	02/04/15 14:17	10
Silvex (2,4,5-TP)	0.203	U	1.89	0.203	mg/Kg		02/03/15 12:09	02/04/15 14:17	10
<b>2,4,5-T</b>	<b>1.33</b>	<b>J</b>	<b>1.89</b>	<b>0.208</b>	<b>mg/Kg</b>		<b>02/03/15 12:09</b>	<b>02/04/15 14:17</b>	<b>10</b>
<b>2,4-DB</b>	<b>8.43</b>		<b>1.89</b>	<b>0.311</b>	<b>mg/Kg</b>		<b>02/03/15 12:09</b>	<b>02/04/15 14:17</b>	<b>10</b>
Dinoseb	0.151	U	1.89	0.151	mg/Kg		02/03/15 12:09	02/04/15 14:17	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4-DCAA	555	X	10 - 125.				02/03/15 12:09	02/04/15 14:17	10
			2						

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C6-C12</b>	<b>33200</b>		5000	1900	mg/Kg		02/02/15 15:15	02/03/15 01:35	50
<b>&gt;C12-C28</b>	<b>118000</b>		5000	2030	mg/Kg		02/02/15 15:15	02/03/15 01:35	50
<b>&gt;C28-C35</b>	<b>32600</b>		5000	2030	mg/Kg		02/02/15 15:15	02/03/15 01:35	50
<b>C6-C35</b>	<b>184000</b>		5000	1900	mg/Kg		02/02/15 15:15	02/03/15 01:35	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	X	70 - 130				02/02/15 15:15	02/03/15 01:35	50

## Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Chloride</b>	<b>1290</b>		962	962	mg/Kg		02/09/15 13:54	02/09/15 16:54	10

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.53	U	10.1	4.53	mg/Kg		02/03/15 15:28	02/03/15 20:28	5
<b>Barium</b>	<b>905</b>		10.1	8.05	mg/Kg		02/03/15 15:28	02/03/15 20:28	5
<b>Cadmium</b>	<b>0.604</b>	<b>J</b>	5.03	0.503	mg/Kg		02/03/15 15:28	02/03/15 20:28	5
<b>Chromium</b>	<b>30.1</b>		5.03	3.02	mg/Kg		02/03/15 15:28	02/03/15 20:28	5
<b>Lead</b>	<b>123</b>		5.03	2.52	mg/Kg		02/03/15 15:28	02/03/15 20:28	5
Selenium	5.03	U	10.1	5.03	mg/Kg		02/03/15 15:28	02/03/15 20:28	5
Silver	2.52	U	5.03	2.52	mg/Kg		02/03/15 15:28	02/03/15 20:28	5
<b>Sodium</b>	<b>994</b>		201	101	mg/Kg		02/03/15 15:28	02/04/15 14:58	1
<b>Sulfur</b>	<b>6640</b>		252	101	mg/Kg		02/03/15 15:28	02/03/15 20:28	5

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-5-012915**

**Lab Sample ID: 600-105998-2**

Date Collected: 01/29/15 13:20

Matrix: Waste

Date Received: 01/29/15 17:19

**Method: 6010B - Metals (ICP) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0328	U	0.100	0.0328	mg/L		02/04/15 11:47	02/04/15 16:25	1
<b>Barium</b>	<b>0.676</b>	<b>B</b>	0.200	0.0220	mg/L		02/04/15 11:47	02/04/15 16:25	1
Cadmium	0.00350	U	0.0500	0.00350	mg/L		02/04/15 11:47	02/04/15 16:45	1
<b>Chromium</b>	<b>0.0206</b>	<b>J</b>	0.100	0.0155	mg/L		02/04/15 11:47	02/04/15 16:25	1
<b>Lead</b>	<b>0.142</b>		0.100	0.0290	mg/L		02/04/15 11:47	02/04/15 16:25	1
Selenium	0.0417	U	0.400	0.0417	mg/L		02/04/15 11:47	02/04/15 16:25	1
Silver	0.0125	U	0.100	0.0125	mg/L		02/04/15 11:47	02/04/15 16:25	1

**Method: 7470A - Mercury (CVAA) - TCLP**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.00739</b>		0.00200	0.000820	mg/L		02/04/15 10:31	02/04/15 12:41	1

**Method: 7471A - Mercury (CVAA)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>9.61</b>	<b>B</b>	1.57	0.330	mg/Kg		02/02/15 07:22	02/02/15 11:00	100

**General Chemistry**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Flashpoint</b>	<b>&gt;186</b>		1.00	1.00	Degrees F			02/03/15 06:25	1
Cyanide, Reactive	0.0843	U	0.246	0.0843	mg/Kg		02/02/15 10:00	02/03/15 15:59	1
<b>Halogens, Extractable Organic</b>	<b>500</b>		200	34.0	mg/Kg		02/05/15 05:39	02/05/15 10:35	1
Sulfide, Reactive	13.8	U	49.3	13.8	mg/Kg		02/02/15 10:00	02/03/15 13:29	1
<b>Percent Water</b>	<b>74.0</b>			%				02/05/15 16:00	1
<b>BTU</b>	<b>3420</b>		500	500	BTU/lb			02/03/15 14:45	1
<b>Total Suspended Solids</b>	<b>220000</b>		1000	1000	mg/L			01/31/15 08:18	1

**Client Sample ID: SludgeComp-3-012915**

**Lab Sample ID: 600-105998-3**

Date Collected: 01/29/15 14:19

Matrix: Waste

Date Received: 01/29/15 17:19

**Method: 8260B - Volatile Organic Compounds (GC/MS)**

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	16.6	U	100	16.6	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
<b>Benzene</b>	<b>41.9</b>	<b>J</b>	50.0	6.30	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Chlorobromomethane	17.8	U	50.0	17.8	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Bromoform	13.7	U	50.0	13.7	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Bromomethane	8.30	U	100	8.30	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
2-Butanone (MEK)	19.0	U	100	19.0	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Carbon disulfide	5.50	U	100	5.50	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Carbon tetrachloride	11.3	U	50.0	11.3	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Dibromochloromethane	9.40	U	50.0	9.40	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
<b>Chlorobenzene</b>	<b>13.6</b>	<b>J</b>	50.0	9.60	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Chloroethane	14.0	U	100	14.0	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Chloroform	6.60	U	50.0	6.60	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Chloromethane	16.6	U	100	16.6	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
1,1-Dichloroethane	8.70	U	50.0	8.70	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
1,2-Dichloroethane	9.00	U	50.0	9.00	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
1,1-Dichloroethene	12.2	U	50.0	12.2	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
cis-1,2-Dichloroethene	8.30	U	50.0	8.30	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
trans-1,2-Dichloroethene	11.4	U	50.0	11.4	mg/Kg		02/02/15 10:00	02/04/15 21:39	20

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-3-012915**

**Lab Sample ID: 600-105998-3**

**Matrix: Waste**

Date Collected: 01/29/15 14:19

Date Received: 01/29/15 17:19

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	7.10	U	50.0	7.10	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
cis-1,3-Dichloropropene	5.40	U	50.0	5.40	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
trans-1,3-Dichloropropene	5.80	U	50.0	5.80	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
<b>Ethylbenzene</b>	<b>186</b>		50.0	10.2	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
2-Hexanone	10.1	U	100	10.1	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
<b>Methylene Chloride</b>	<b>33.7 J</b>		100	21.9	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
4-Methyl-2-pentanone (MIBK)	14.7	U	100	14.7	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Styrene	7.10	U	50.0	7.10	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
1,1,2,2-Tetrachloroethane	8.70	U	50.0	8.70	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Tetrachloroethene	7.10	U	50.0	7.10	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
<b>Toluene</b>	<b>431</b>		50.0	13.8	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
1,1,1-Trichloroethane	7.40	U	50.0	7.40	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
1,1,2-Trichloroethane	7.30	U	400	7.30	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Trichloroethene	14.0	U	50.0	14.0	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Vinyl acetate	9.30	U	100	9.30	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Vinyl chloride	9.00	U	100	9.00	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
<b>o-Xylene</b>	<b>282</b>		50.0	11.3	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
<b>m-Xylene &amp; p-Xylene</b>	<b>841</b>		50.0	15.2	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
<b>Xylenes, Total</b>	<b>1120</b>		50.0	11.3	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
Bromodichloromethane	6.60	U	50.0	6.60	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
1,2-Dichloroethene, Total	19.0	U	100	19.0	mg/Kg		02/02/15 10:00	02/04/15 21:39	20
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Toluene-d8 (Surr)	2	X	50 - 130				02/02/15 10:00	02/04/15 21:39	20
Dibromofluoromethane	22	X	68 - 140				02/02/15 10:00	02/04/15 21:39	20
4-Bromofluorobenzene	0	X	57 - 140				02/02/15 10:00	02/04/15 21:39	20
1,2-Dichloroethane-d4 (Surr)	0	X	61 - 130				02/02/15 10:00	02/04/15 21:39	20

## Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Benzene</b>	<b>0.269</b>		0.0250	0.00170	mg/L			02/05/15 19:43	5
Carbon tetrachloride	0.00250	U	0.0250	0.00250	mg/L			02/05/15 19:43	5
<b>Chlorobenzene</b>	<b>0.0180 J</b>		0.0250	0.00250	mg/L			02/05/15 19:43	5
<b>Chloroform</b>	<b>0.112</b>		0.0250	0.00300	mg/L			02/05/15 19:43	5
1,4-Dichlorobenzene	0.00320	U	0.0250	0.00320	mg/L			02/05/15 19:43	5
1,2-Dichloroethane	0.00250	U	0.0250	0.00250	mg/L			02/05/15 19:43	5
1,1-Dichloroethene	0.00250	U	0.0250	0.00250	mg/L			02/05/15 19:43	5
<b>2-Butanone (MEK)</b>	<b>1.45</b>		0.125	0.0130	mg/L			02/05/15 19:43	5
Tetrachloroethene	0.00290	U	0.0250	0.00290	mg/L			02/05/15 19:43	5
<b>Trichloroethene</b>	<b>0.00439 J</b>		0.0250	0.00250	mg/L			02/05/15 19:43	5
Vinyl chloride	0.00250	U	0.0250	0.00250	mg/L			02/05/15 19:43	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
4-Bromofluorobenzene	98		78 - 118					02/05/15 19:43	5
Dibromofluoromethane	112		81 - 121					02/05/15 19:43	5
Toluene-d8 (Surr)	85		80 - 120					02/05/15 19:43	5

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthene	530	U	925	530	mg/Kg		02/03/15 10:48	02/03/15 22:25	10

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-3-012915**

**Lab Sample ID: 600-105998-3**

**Matrix: Waste**

Date Collected: 01/29/15 14:19

Date Received: 01/29/15 17:19

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acenaphthylene	540	U	925	540	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Anthracene	581	U	925	581	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Benzidine	2310	U	9250	2310	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Benzo[a]anthracene	581	U	925	581	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Benzo[b]fluoranthene	54.2	U	925	54.2	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Benzo[k]fluoranthene	82.5	U	925	82.5	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Benzo[g,h,i]perylene	491	U	925	491	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Benzo[a]pyrene	519	U	925	519	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Bis(2-chloroethoxy)methane	522	U	925	522	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Bis(2-chloroethyl)ether	92.5	U	925	92.5	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Bis(2-ethylhexyl) phthalate	561	U	925	561	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
4-Bromophenyl phenyl ether	561	U	925	561	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Butyl benzyl phthalate	563	U	925	563	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
4-Chloroaniline	185	U	925	185	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
2-Chloronaphthalene	602	U	925	602	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
4-Chlorophenyl phenyl ether	556	U	925	556	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Carbazole	571	U	925	571	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Chrysene	566	U	925	566	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Di-n-butyl phthalate	597	U	925	597	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Dibenz(a,h)anthracene	532	U	925	532	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Dibenzofuran	551	U	925	551	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
1,2-Dichlorobenzene	73.7	U	925	73.7	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
1,3-Dichlorobenzene	499	U	925	499	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
1,4-Dichlorobenzene	64.7	U	925	64.7	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
3,3'-Dichlorobenzidine	178	U	1850	178	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Diethyl phthalate	572	U	925	572	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Dimethyl phthalate	560	U	925	560	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
2,4-Dinitrotoluene	92.3	U	925	92.3	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
2,6-Dinitrotoluene	588	U	925	588	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Di-n-octyl phthalate	599	U	925	599	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Fluoranthene	591	U	925	591	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Fluorene	570	U	925	570	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Hexachlorobenzene	584	U	925	584	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Hexachlorocyclopentadiene	62.4	U	925	62.4	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Hexachloroethane	83.9	U	925	83.9	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Hexachlorobutadiene	95.1	U	925	95.1	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Indeno[1,2,3-cd]pyrene	508	U	925	508	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Isophorone	544	U	925	544	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
2-Methylnaphthalene	530	U	925	530	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
<b>Naphthalene</b>	<b>347</b>	<b>J</b>	925	54.1	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
2-Nitroaniline	546	U	4490	546	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
3-Nitroaniline	593	U	4490	593	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
4-Nitroaniline	506	U *	4490	506	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Nitrobenzene	133	U	925	133	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
N-Nitrosodimethylamine	268	U	925	268	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
<b>N-Nitrosodiphenylamine</b>	<b>157</b>	<b>J</b>	925	88.4	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
N-Nitrosodi-n-propylamine	80.2	U	925	80.2	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Phenanthrene	569	U	925	569	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	
Pyrene	619	U	925	619	mg/Kg	02/03/15 10:48	02/03/15 22:25	10	

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-3-012915**

**Lab Sample ID: 600-105998-3**

**Matrix: Waste**

Date Collected: 01/29/15 14:19

Date Received: 01/29/15 17:19

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	590	U	925	590	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
Benzyl alcohol	175	U	925	175	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
4-Chloro-3-methylphenol	538	U	925	538	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
2-Chlorophenol	65.3	U	925	65.3	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
2-Methylphenol	106	U	925	106	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
3 & 4 Methylphenol	84.3	U	1850	84.3	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
2,4-Dichlorophenol	512	U	925	512	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
2,4-Dimethylphenol	178	U	925	178	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
4,6-Dinitro-2-methylphenol	579	U	4490	579	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
2,4-Dinitrophenol	359	U	4490	359	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
2-Nitrophenol	504	U	925	504	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
4-Nitrophenol	504	U	4490	504	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
Pentachlorophenol	62.0	U	4490	62.0	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
Phenol	105	U	925	105	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
2,4,5-Trichlorophenol	174	U	925	174	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
2,4,6-Trichlorophenol	505	U	925	505	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
bis (2-Chloroisopropyl) ether	97.1	U	925	97.1	mg/Kg		02/03/15 10:48	02/03/15 22:25	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5	0	X	46 - 130				02/03/15 10:48	02/03/15 22:25	10
2-Fluorophenol	0	X	45 - 130				02/03/15 10:48	02/03/15 22:25	10
2-Fluorobiphenyl	0	X	42 - 130				02/03/15 10:48	02/03/15 22:25	10
2,4,6-Tribromophenol	0	X	25 - 130				02/03/15 10:48	02/03/15 22:25	10
Terphenyl-d14	0	X	51 - 130				02/03/15 10:48	02/03/15 22:25	10
Phenol-d5 (Surr)	0	X	48 - 130				02/03/15 10:48	02/03/15 22:25	10

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0445	U	0.250	0.0445	mg/L		02/03/15 17:06	02/04/15 23:09	5
2,4-Dinitrotoluene	0.0658	U	0.250	0.0658	mg/L		02/03/15 17:06	02/04/15 23:09	5
2,4,5-Trichlorophenol	0.0679	U	0.250	0.0679	mg/L		02/03/15 17:06	02/04/15 23:09	5
2,4,6-Trichlorophenol	0.0647	U	0.250	0.0647	mg/L		02/03/15 17:06	02/04/15 23:09	5
<b>2-Methylphenol</b>	<b>0.131</b>	<b>J</b>	0.250	0.0452	mg/L		02/03/15 17:06	02/04/15 23:09	5
<b>3 &amp; 4 Methylphenol</b>	<b>0.389</b>	<b>J</b>	0.500	0.0470	mg/L		02/03/15 17:06	02/04/15 23:09	5
Hexachlorobenzene	0.0648	U	0.250	0.0648	mg/L		02/03/15 17:06	02/04/15 23:09	5
Hexachlorobutadiene	0.0529	U	0.250	0.0529	mg/L		02/03/15 17:06	02/04/15 23:09	5
Hexachloroethane	0.0549	U	0.250	0.0549	mg/L		02/03/15 17:06	02/04/15 23:09	5
Nitrobenzene	0.0621	U	0.250	0.0621	mg/L		02/03/15 17:06	02/04/15 23:09	5
Pentachlorophenol	0.116	U	1.25	0.116	mg/L		02/03/15 17:06	02/04/15 23:09	5
Pyridine	0.0541	U	0.250	0.0541	mg/L		02/03/15 17:06	02/04/15 23:09	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>	<b>Limits</b>				<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
Nitrobenzene-d5	88		35 - 130				02/03/15 17:06	02/04/15 23:09	5
2-Fluorophenol	81		10 - 130				02/03/15 17:06	02/04/15 23:09	5
2-Fluorobiphenyl	96		41 - 130				02/03/15 17:06	02/04/15 23:09	5
2,4,6-Tribromophenol	109		12 - 138				02/03/15 17:06	02/04/15 23:09	5
Terphenyl-d14	108		43 - 130				02/03/15 17:06	02/04/15 23:09	5
Phenol-d5 (Surr)	74		10 - 130				02/03/15 17:06	02/04/15 23:09	5

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-3-012915**

**Lab Sample ID: 600-105998-3**

**Matrix: Waste**

Date Collected: 01/29/15 14:19

Date Received: 01/29/15 17:19

## Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	0.225	U	0.458	0.225	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
4,4'-DDE	0.201	U	0.458	0.201	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
4,4'-DDT	0.257	U	0.458	0.257	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
Aldrin	0.182	U	0.236	0.182	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
alpha-BHC	0.139	U	0.236	0.139	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
beta-BHC	0.142	U	0.236	0.142	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
Chlordane (n.o.s.)	0.208	U	4.58	0.208	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
delta-BHC	0.118	U	0.236	0.118	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
Dieldrin	0.193	U	0.458	0.193	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
Endosulfan I	0.139	U	0.236	0.139	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
Endosulfan II	0.210	U	0.236	0.210	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
Endosulfan sulfate	0.233	U	0.458	0.233	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
Endrin	0.213	U	0.458	0.213	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
Endrin aldehyde	0.217	U	0.458	0.217	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
gamma-BHC (Lindane)	0.129	U	0.236	0.129	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
Heptachlor	0.129	U	0.236	0.129	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
Heptachlor epoxide	0.163	U	0.236	0.163	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
Methoxychlor	1.12	U	2.36	1.12	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
Toxaphene	10.2	U	23.6	10.2	mg/Kg		02/03/15 11:11	02/03/15 12:02	5
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
DCB Decachlorobiphenyl	139			47 - 177			02/03/15 11:11	02/03/15 12:02	5
Tetrachloro-m-xylene	954	X		50 - 143			02/03/15 11:11	02/03/15 12:02	5

## Method: 8151A - Herbicides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dicamba	0.215	U	1.87	0.215	mg/Kg		02/03/15 12:09	02/04/15 14:41	10
Mecoprop	21.4	U	18.7	21.4	mg/Kg		02/03/15 12:09	02/04/15 14:41	10
MCPA	30.4	U	18.7	30.4	mg/Kg		02/03/15 12:09	02/04/15 14:41	10
Dichlorprop	0.210	U	1.87	0.210	mg/Kg		02/03/15 12:09	02/04/15 14:41	10
2,4-D	0.159	U	1.87	0.159	mg/Kg		02/03/15 12:09	02/04/15 14:41	10
Silvex (2,4,5-TP)	0.201	U	1.87	0.201	mg/Kg		02/03/15 12:09	02/04/15 14:41	10
<b>2,4,5-T</b>	<b>6.02</b>			1.87	0.206 mg/Kg		02/03/15 12:09	02/04/15 14:41	10
<b>2,4-DB</b>	<b>12.2</b>			3.74	0.617 mg/Kg		02/03/15 12:09	02/04/15 15:30	20
Dinoseb	0.150	U	1.87	0.150	mg/Kg		02/03/15 12:09	02/04/15 14:41	10
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
2,4-DCAA	1432	X		10 - 125.			02/03/15 12:09	02/04/15 14:41	10
				2					
2,4-DCAA	1102	X		10 - 125.			02/03/15 12:09	02/04/15 15:30	20
				2					

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>C6-C12</b>	<b>51800</b>			5000	1900 mg/Kg		02/02/15 15:15	02/03/15 02:07	50
<b>&gt;C12-C28</b>	<b>358000</b>			5000	2030 mg/Kg		02/02/15 15:15	02/03/15 02:07	50
<b>&gt;C28-C35</b>	<b>66500</b>			5000	2030 mg/Kg		02/02/15 15:15	02/03/15 02:07	50
<b>C6-C35</b>	<b>476000</b>			5000	1900 mg/Kg		02/02/15 15:15	02/03/15 02:07	50
<b>Surrogate</b>	<b>%Recovery</b>	<b>Qualifier</b>		<b>Limits</b>			<b>Prepared</b>	<b>Analyzed</b>	<b>Dil Fac</b>
<i>o-Terphenyl</i>	0	X		70 - 130			02/02/15 15:15	02/03/15 02:07	50

TestAmerica Houston

# Client Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-3-012915**

**Lab Sample ID: 600-105998-3**

**Matrix: Waste**

Date Collected: 01/29/15 14:19

Date Received: 01/29/15 17:19

## Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2310		909	909	mg/Kg		02/09/15 13:54	02/09/15 17:14	10

## Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.49	U	9.98	4.49	mg/Kg		02/03/15 15:28	02/03/15 20:33	5
<b>Barium</b>	<b>319</b>		9.98	7.98	mg/Kg		02/03/15 15:28	02/03/15 20:33	5
Cadmium	0.499	U	4.99	0.499	mg/Kg		02/03/15 15:28	02/03/15 20:33	5
<b>Chromium</b>	<b>11.7</b>		4.99	2.99	mg/Kg		02/03/15 15:28	02/03/15 20:33	5
<b>Lead</b>	<b>9.38</b>		4.99	2.50	mg/Kg		02/03/15 15:28	02/03/15 20:33	5
<b>Selenium</b>	<b>6.59 J</b>		9.98	4.99	mg/Kg		02/03/15 15:28	02/03/15 20:33	5
Silver	2.50	U	4.99	2.50	mg/Kg		02/03/15 15:28	02/03/15 20:33	5
<b>Sodium</b>	<b>989</b>		200	99.8	mg/Kg		02/03/15 15:28	02/04/15 15:02	1
<b>Sulfur</b>	<b>12500</b>		250	99.8	mg/Kg		02/03/15 15:28	02/03/15 20:33	5

## Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0328	U	0.100	0.0328	mg/L		02/03/15 16:48	02/04/15 14:56	1
<b>Barium</b>	<b>0.474 B</b>		0.200	0.0220	mg/L		02/03/15 16:48	02/04/15 14:56	1
Cadmium	0.00350	U	0.0500	0.00350	mg/L		02/03/15 16:48	02/04/15 14:56	1
<b>Chromium</b>	<b>0.0181 J</b>		0.100	0.0155	mg/L		02/03/15 16:48	02/04/15 14:56	1
Lead	0.0290	U	0.100	0.0290	mg/L		02/03/15 16:48	02/04/15 14:56	1
Selenium	0.0417	U	0.400	0.0417	mg/L		02/03/15 16:48	02/04/15 14:56	1
Silver	0.0125	U	0.100	0.0125	mg/L		02/03/15 16:48	02/04/15 14:56	1

## Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>0.000201</b>		0.000200	0.0000820	mg/L		02/04/15 06:28	02/04/15 10:39	1

## Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Mercury</b>	<b>5.38 B</b>		0.155	0.0325	mg/Kg		02/02/15 07:22	02/02/15 10:58	10

## General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<b>Flashpoint</b>	<b>&gt;186</b>		1.00	1.00	Degrees F			02/04/15 10:15	1
Cyanide, Reactive	0.0844	U	0.247	0.0844	mg/Kg		02/02/15 10:00	02/03/15 15:59	1
<b>Halogens, Extractable Organic</b>	<b>1150</b>		199	33.8	mg/Kg		02/05/15 05:40	02/05/15 10:49	1
Sulfide, Reactive	13.8	U	49.4	13.8	mg/Kg		02/02/15 10:00	02/03/15 13:29	1
<b>Percent Water</b>	<b>51.0</b>			%				02/05/15 16:00	1
<b>BTU</b>	<b>7240</b>		500	500	BTU/lb			02/03/15 14:45	1
<b>Total Suspended Solids</b>	<b>6600</b>		2000	2000	mg/L			01/31/15 08:18	1

## Definitions/Glossary

Client: CB&I Federal Services LLC  
Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

### Qualifiers

#### GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
X	Surrogate is outside control limits

#### GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
X	Surrogate is outside control limits
*	LCS or LCSD exceeds the control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery exceeds the control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

#### GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
U	Indicates the analyte was analyzed for but not detected.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### HPLC/IC

Qualifier	Qualifier Description
F5	Duplicate RPD exceeds limit, and one or both sample results are less than 5 times RL. The data are considered valid because the absolute difference is less than the RL.
U	Indicates the analyte was analyzed for but not detected.

#### Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

#### General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

### Glossary

#### Abbreviation

##### These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated

## Definitions/Glossary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

### Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

## Surrogate Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (50-130)	DBFM (68-140)	BFB (57-140)	12DCE (61-130)
600-105998-1	SludgeComp-2-012915	0 X	0 X	0 X	0 X
600-105998-2	SludgeComp-5-012915	0 X	0 X	0 X	0 X
600-105998-3	SludgeComp-3-012915	2 X	22 X	0 X	0 X
LCS 600-155103/1-A	Lab Control Sample	98	101	105	92
LCSD 600-155103/2-A	Lab Control Sample Dup	94	97	103	86
MB 600-155103/3-A	Method Blank	93	100	105	84

**Surrogate Legend**

TOL = Toluene-d8 (Surr)  
DBFM = Dibromofluoromethane  
BFB = 4-Bromofluorobenzene  
12DCE = 1,2-Dichloroethane-d4 (Surr)

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (78-118)	DBFM (81-121)	TOL (80-120)
LCS 400-245559/1002	Lab Control Sample	101	106	91
LCS 400-245713/1002	Lab Control Sample	103	108	90
MB 400-245559/4	Method Blank	94	113	88
MB 400-245713/4	Method Blank	96	110	88

**Surrogate Legend**

BFB = 4-Bromofluorobenzene  
DBFM = Dibromofluoromethane  
TOL = Toluene-d8 (Surr)

### Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		BFB (78-118)	DBFM (81-121)	TOL (80-120)
600-105998-1	SludgeComp-2-012915	101	111	88
600-105998-2	SludgeComp-5-012915	97	112	88
600-105998-3	SludgeComp-3-012915	98	112	85
LB 400-245651/1-A	Method Blank	96	117	88
LB 400-245651/1-A	Method Blank	94	110	87

**Surrogate Legend**

BFB = 4-Bromofluorobenzene  
DBFM = Dibromofluoromethane  
TOL = Toluene-d8 (Surr)

## Surrogate Summary

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-105998-1

Project/Site: CB&I Federal Services LLC . .– Houston

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (46-130)	2FP (45-130)	FBP (42-130)	TBP (25-130)	TPH (51-130)	PHL (48-130)
600-105998-1	SludgeComp-2-012915	0 X	0 X	0 X	0 X	0 X	0 X
600-105998-2	SludgeComp-5-012915	0 X	0 X	0 X	0 X	0 X	0 X
600-105998-3	SludgeComp-3-012915	0 X	0 X	0 X	0 X	0 X	0 X
LCS 600-155212/2-A	Lab Control Sample	71	89	101	94	94	90
MB 600-155212/1-A	Method Blank	84	96	93	84	96	86

**Surrogate Legend**

NBZ = Nitrobenzene-d5  
 2FP = 2-Fluorophenol  
 FBP = 2-Fluorobiphenyl  
 TBP = 2,4,6-Tribromophenol  
 TPH = Terphenyl-d14  
 PHL = Phenol-d5 (Surr)

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (35-130)	2FP (10-130)	FBP (41-130)	TBP (12-138)	TPH (43-130)	PHL (10-130)
LCS 600-155258/2-A	Lab Control Sample	75	76	83	97	103	73
LCS 600-155349/2-A	Lab Control Sample	77	78	85	97	98	76
MB 600-155258/1-A	Method Blank	81	83	86	79	107	78
MB 600-155349/1-A	Method Blank	80	84	85	84	101	80

**Surrogate Legend**

NBZ = Nitrobenzene-d5  
 2FP = 2-Fluorophenol  
 FBP = 2-Fluorobiphenyl  
 TBP = 2,4,6-Tribromophenol  
 TPH = Terphenyl-d14  
 PHL = Phenol-d5 (Surr)

### Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Waste

Prep Type: TCLP

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		NBZ (35-130)	2FP (10-130)	FBP (41-130)	TBP (12-138)	TPH (43-130)	PHL (10-130)
600-105998-1	SludgeComp-2-012915	0 X	0 X	0 X	0 X	0 X	0 X
600-105998-2	SludgeComp-5-012915	78	35	74	65	80	29
600-105998-2 MS	SludgeComp-5-012915	122	45	122	89	117	23
600-105998-3	SludgeComp-3-012915	88	81	96	109	108	74
600-105998-3 MS	SludgeComp-3-012915	84	74	96	116	105	68
LB 600-155165/1-C	Method Blank	78	74	83	98	102	56
LB 600-155166/1-C	Method Blank	75	61	83	82	92	41
LB 600-155282/1-D	Method Blank	87	63	87	87	101	42

**Surrogate Legend**

NBZ = Nitrobenzene-d5

TestAmerica Houston

## Surrogate Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

2FP = 2-Fluorophenol

FBP = 2-Fluorobiphenyl

TBP = 2,4,6-Tribromophenol

TPH = Terphenyl-d14

PHL = Phenol-d5 (Surr)

### Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DCB1 (47-177)	TCX1 (50-143)	
600-105998-2	SludgeComp-5-012915	138	523 X	
600-105998-3	SludgeComp-3-012915	139	954 X	
LCS 600-155217/2-A	Lab Control Sample	93	78	
MB 600-155217/1-A	Method Blank	88	79	

#### Surrogate Legend

DCB = DCB Decachlorobiphenyl

TCX = Tetrachloro-m-xylene

### Method: 8151A - Herbicides (GC)

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		DCPA2 (10-125.2)		
600-105998-2	SludgeComp-5-012915	555 X		
600-105998-3	SludgeComp-3-012915	1432 X		
600-105998-3	SludgeComp-3-012915	1102 X		
LCS 600-155226/2-A	Lab Control Sample	97		
MB 600-155226/1-A	Method Blank	88		

#### Surrogate Legend

DCPA = 2,4-DCAA

### Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

Matrix: Waste

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)		
		OTPH (70-130)		
600-105998-1 - DL	SludgeComp-2-012915	101		
600-105998-2 - DL	SludgeComp-5-012915	0 X		
600-105998-3 - DL	SludgeComp-3-012915	0 X		
LCS 600-155146/2-A	Lab Control Sample	91		
MB 600-155146/1-A	Method Blank	92		

#### Surrogate Legend

OTPH = o-Terphenyl

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8260B - Volatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 600-155103/3-A**

**Matrix: Waste**

**Analysis Batch: 155108**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 155103**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	0.208	U	1.25	0.208	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Benzene	0.0788	U	0.625	0.0788	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Chlorobromomethane	0.223	U	0.625	0.223	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Bromoform	0.171	U	0.625	0.171	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Bromomethane	0.104	U	1.25	0.104	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
2-Butanone (MEK)	0.238	U	1.25	0.238	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Carbon disulfide	0.0688	U	1.25	0.0688	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Carbon tetrachloride	0.141	U	0.625	0.141	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Dibromochloromethane	0.118	U	0.625	0.118	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Chlorobenzene	0.120	U	0.625	0.120	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Chloroethane	0.175	U	1.25	0.175	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Chloroform	0.0825	U	0.625	0.0825	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Chloromethane	0.208	U	1.25	0.208	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
1,1-Dichloroethane	0.109	U	0.625	0.109	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
1,2-Dichloroethane	0.113	U	0.625	0.113	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
1,1-Dichloroethene	0.153	U	0.625	0.153	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
cis-1,2-Dichloroethene	0.104	U	0.625	0.104	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
trans-1,2-Dichloroethene	0.143	U	0.625	0.143	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
1,2-Dichloropropane	0.0888	U	0.625	0.0888	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
cis-1,3-Dichloropropene	0.0675	U	0.625	0.0675	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
trans-1,3-Dichloropropene	0.0725	U	0.625	0.0725	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Ethylbenzene	0.128	U	0.625	0.128	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
2-Hexanone	0.126	U	1.25	0.126	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Methylene Chloride	0.274	U	1.25	0.274	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
4-Methyl-2-pentanone (MIBK)	0.184	U	1.25	0.184	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Styrene	0.0888	U	0.625	0.0888	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
1,1,2,2-Tetrachloroethane	0.109	U	0.625	0.109	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Tetrachloroethene	0.0888	U	0.625	0.0888	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Toluene	0.173	U	0.625	0.173	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
1,1,1-Trichloroethane	0.0925	U	0.625	0.0925	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
1,1,2-Trichloroethane	0.0913	U	5.00	0.0913	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Trichloroethene	0.175	U	0.625	0.175	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Vinyl acetate	0.116	U	1.25	0.116	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Vinyl chloride	0.113	U	1.25	0.113	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
o-Xylene	0.141	U	0.625	0.141	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
m-Xylene & p-Xylene	0.190	U	0.625	0.190	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Xylenes, Total	0.141	U	0.625	0.141	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Bromodichloromethane	0.0825	U	0.625	0.0825	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
1,2-Dichloroethene, Total	0.238	U	1.25	0.238	mg/Kg		02/02/15 10:00	02/02/15 14:19	1
Surrogate	MB	MB					Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier	Limits						
Toluene-d8 (Sur)	93		50 - 130				02/02/15 10:00	02/02/15 14:19	1
Dibromofluoromethane	100		68 - 140				02/02/15 10:00	02/02/15 14:19	1
4-Bromofluorobenzene	105		57 - 140				02/02/15 10:00	02/02/15 14:19	1
1,2-Dichloroethane-d4 (Sur)	84		61 - 130				02/02/15 10:00	02/02/15 14:19	1

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 600-155103/1-A**

**Matrix: Waste**

**Analysis Batch: 155108**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155103**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Acetone	12.5	14.08		mg/Kg		113	13 - 150
Benzene	6.25	6.591		mg/Kg		105	70 - 131
Chlorobromomethane	6.25	6.214		mg/Kg		99	70 - 132
Bromoform	6.25	5.119		mg/Kg		82	43 - 150
Bromomethane	6.25	7.836		mg/Kg		125	37 - 147
2-Butanone (MEK)	12.5	13.22		mg/Kg		106	33 - 150
Carbon disulfide	6.25	6.540		mg/Kg		105	51 - 141
Carbon tetrachloride	6.25	6.681		mg/Kg		107	58 - 130
Dibromochloromethane	6.25	5.667		mg/Kg		91	65 - 134
Chlorobenzene	6.25	5.870		mg/Kg		94	63 - 131
Chloroethane	6.25	6.306		mg/Kg		101	40 - 150
Chloroform	6.25	6.592		mg/Kg		105	69 - 130
Chloromethane	6.25	5.208		mg/Kg		83	44 - 141
1,1-Dichloroethane	6.25	6.234		mg/Kg		100	63 - 140
1,2-Dichloroethane	6.25	6.255		mg/Kg		100	58 - 137
1,1-Dichloroethene	6.25	6.448		mg/Kg		103	62 - 142
cis-1,2-Dichloroethene	6.25	6.328		mg/Kg		101	70 - 130
trans-1,2-Dichloroethene	6.25	6.921		mg/Kg		111	69 - 130
1,2-Dichloropropane	6.25	6.811		mg/Kg		109	70 - 130
cis-1,3-Dichloropropene	6.25	6.128		mg/Kg		98	65 - 130
trans-1,3-Dichloropropene	6.25	6.290		mg/Kg		101	70 - 130
Ethylbenzene	6.25	5.909		mg/Kg		95	66 - 130
2-Hexanone	12.5	11.51		mg/Kg		92	35 - 150
Methylene Chloride	6.25	6.135		mg/Kg		98	61 - 150
4-Methyl-2-pentanone (MIBK)	12.5	12.65		mg/Kg		101	21 - 150
Styrene	6.25	6.147		mg/Kg		98	65 - 133
1,1,2,2-Tetrachloroethane	6.25	6.201		mg/Kg		99	61 - 138
Tetrachloroethene	6.25	4.805		mg/Kg		77	43 - 143
Toluene	6.25	5.826		mg/Kg		93	67 - 130
1,1,1-Trichloroethane	6.25	6.617		mg/Kg		106	59 - 130
1,1,2-Trichloroethane	6.25	6.095		mg/Kg		98	67 - 134
Trichloroethene	6.25	6.835		mg/Kg		109	63 - 135
Vinyl acetate	12.5	13.04		mg/Kg		104	40 - 150
Vinyl chloride	6.25	5.907		mg/Kg		95	40 - 148
o-Xylene	6.25	5.245		mg/Kg		84	62 - 130
m-Xylene & p-Xylene	6.25	6.142		mg/Kg		98	64 - 130
Xylenes, Total	12.5	11.39		mg/Kg		91	63 - 130
Bromodichloromethane	6.25	6.568		mg/Kg		105	67 - 138
1,2-Dichloroethene, Total	12.5	13.25		mg/Kg		106	70 - 130

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	98		50 - 130
Dibromofluoromethane	101		68 - 140
4-Bromofluorobenzene	105		57 - 140
1,2-Dichloroethane-d4 (Surr)	92		61 - 130

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCSD 600-155103/2-A**

**Matrix: Waste**

**Analysis Batch: 155108**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 155103**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec.		RPD	RPD	Limit
	Added	Result	Qualifier				Limits	RPD	Limit		
Acetone	12.5	13.06		mg/Kg		104	13 - 150	8	30		
Benzene	6.25	5.803		mg/Kg		93	70 - 131	13	30		
Chlorobromomethane	6.25	6.677		mg/Kg		107	70 - 132	7	30		
Bromoform	6.25	6.249		mg/Kg		100	43 - 150	20	30		
Bromomethane	6.25	7.163		mg/Kg		115	37 - 147	9	30		
2-Butanone (MEK)	12.5	12.03		mg/Kg		96	33 - 150	9	30		
Carbon disulfide	6.25	6.082		mg/Kg		97	51 - 141	7	30		
Carbon tetrachloride	6.25	5.938		mg/Kg		95	58 - 130	12	30		
Dibromochloromethane	6.25	5.269		mg/Kg		84	65 - 134	7	30		
Chlorobenzene	6.25	5.525		mg/Kg		88	63 - 131	6	30		
Chloroethane	6.25	6.463		mg/Kg		103	40 - 150	2	30		
Chloroform	6.25	6.385		mg/Kg		102	69 - 130	3	30		
Chloromethane	6.25	5.123		mg/Kg		82	44 - 141	2	30		
1,1-Dichloroethane	6.25	6.579		mg/Kg		105	63 - 140	5	30		
1,2-Dichloroethane	6.25	5.920		mg/Kg		95	58 - 137	6	30		
1,1-Dichloroethene	6.25	5.483		mg/Kg		88	62 - 142	16	30		
cis-1,2-Dichloroethene	6.25	5.892		mg/Kg		94	70 - 130	7	30		
trans-1,2-Dichloroethene	6.25	6.252		mg/Kg		100	69 - 130	10	30		
1,2-Dichloropropane	6.25	6.384		mg/Kg		102	70 - 130	6	30		
cis-1,3-Dichloropropene	6.25	5.473		mg/Kg		88	65 - 130	11	30		
trans-1,3-Dichloropropene	6.25	5.983		mg/Kg		96	70 - 130	5	30		
Ethylbenzene	6.25	5.282		mg/Kg		85	66 - 130	11	30		
2-Hexanone	12.5	11.22		mg/Kg		90	35 - 150	3	30		
Methylene Chloride	6.25	5.808		mg/Kg		93	61 - 150	5	30		
4-Methyl-2-pentanone (MIBK)	12.5	11.48		mg/Kg		92	21 - 150	10	30		
Styrene	6.25	5.999		mg/Kg		96	65 - 133	2	30		
1,1,2,2-Tetrachloroethane	6.25	5.522		mg/Kg		88	61 - 138	12	30		
Tetrachloroethene	6.25	4.958		mg/Kg		79	43 - 143	3	30		
Toluene	6.25	5.660		mg/Kg		91	67 - 130	3	30		
1,1,1-Trichloroethane	6.25	6.036		mg/Kg		97	59 - 130	9	30		
1,1,2-Trichloroethane	6.25	5.395		mg/Kg		86	67 - 134	12	30		
Trichloroethene	6.25	6.381		mg/Kg		102	63 - 135	7	30		
Vinyl acetate	12.5	12.63		mg/Kg		101	40 - 150	3	30		
Vinyl chloride	6.25	5.665		mg/Kg		91	40 - 148	4	30		
o-Xylene	6.25	5.002		mg/Kg		80	62 - 130	5	30		
m-Xylene & p-Xylene	6.25	5.202		mg/Kg		83	64 - 130	17	30		
Xylenes, Total	12.5	10.20		mg/Kg		82	63 - 130	11	30		
Bromodichloromethane	6.25	6.079		mg/Kg		97	67 - 138	8	30		
1,2-Dichloroethene, Total	12.5	12.14		mg/Kg		97	70 - 130	9	30		

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	94		50 - 130
Dibromofluoromethane	97		68 - 140
4-Bromofluorobenzene	103		57 - 140
1,2-Dichloroethane-d4 (Surr)	86		61 - 130

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID:** MB 400-245559/4

**Matrix:** Waste

**Analysis Batch:** 245559

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.000340	U	0.00500	0.000340	mg/L			02/05/15 10:17	1
Carbon tetrachloride	0.000500	U	0.00500	0.000500	mg/L			02/05/15 10:17	1
Chlorobenzene	0.000500	U	0.00500	0.000500	mg/L			02/05/15 10:17	1
Chloroform	0.000600	U	0.00500	0.000600	mg/L			02/05/15 10:17	1
1,4-Dichlorobenzene	0.000640	U	0.00500	0.000640	mg/L			02/05/15 10:17	1
1,2-Dichloroethane	0.000500	U	0.00500	0.000500	mg/L			02/05/15 10:17	1
1,1-Dichloroethene	0.000500	U	0.00500	0.000500	mg/L			02/05/15 10:17	1
2-Butanone (MEK)	0.00260	U	0.0250	0.00260	mg/L			02/05/15 10:17	1
Tetrachloroethene	0.000580	U	0.00500	0.000580	mg/L			02/05/15 10:17	1
Trichloroethene	0.000500	U	0.00500	0.000500	mg/L			02/05/15 10:17	1
Vinyl chloride	0.000500	U	0.00500	0.000500	mg/L			02/05/15 10:17	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier							
4-Bromofluorobenzene	94		78 - 118					02/05/15 10:17	1
Dibromofluoromethane	113		81 - 121					02/05/15 10:17	1
Toluene-d8 (Surr)	88		80 - 120					02/05/15 10:17	1

**Lab Sample ID:** LCS 400-245559/1002

**Matrix:** Waste

**Analysis Batch:** 245559

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

Analyte	Spikes	LCS	LCS	%Rec.		
	Added	Result	Qualifier	Unit	D	%Rec
Benzene	0.0500	0.04970		mg/L	99	79 - 120
Carbon tetrachloride	0.0500	0.05838		mg/L	117	46 - 141
Chlorobenzene	0.0500	0.04360		mg/L	87	80 - 120
Chloroform	0.0500	0.05252		mg/L	105	73 - 122
1,4-Dichlorobenzene	0.0500	0.04220		mg/L	84	79 - 120
1,2-Dichloroethane	0.0500	0.05550		mg/L	111	69 - 128
1,1-Dichloroethene	0.0500	0.05137		mg/L	103	50 - 134
2-Butanone (MEK)	0.200	0.1929		mg/L	96	62 - 137
Tetrachloroethene	0.0500	0.04443		mg/L	89	76 - 124
Trichloroethene	0.0500	0.05280		mg/L	106	77 - 120
Vinyl chloride	0.0500	0.04824		mg/L	96	60 - 128
Surrogate	LCS	LCS	Limits			
	%Recovery	Qualifier				
4-Bromofluorobenzene	101		78 - 118			
Dibromofluoromethane	106		81 - 121			
Toluene-d8 (Surr)	91		80 - 120			

**Lab Sample ID:** MB 400-245713/4

**Matrix:** Waste

**Analysis Batch:** 245713

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.000340	U	0.00500	0.000340	mg/L			02/06/15 09:29	1
Carbon tetrachloride	0.000500	U	0.00500	0.000500	mg/L			02/06/15 09:29	1
Chlorobenzene	0.000500	U	0.00500	0.000500	mg/L			02/06/15 09:29	1

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 400-245713/4**

**Matrix: Waste**

**Analysis Batch: 245713**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloroform	0.000600	U	0.00500	0.000600	mg/L			02/06/15 09:29	1
1,4-Dichlorobenzene	0.000640	U	0.00500	0.000640	mg/L			02/06/15 09:29	1
1,2-Dichloroethane	0.000500	U	0.00500	0.000500	mg/L			02/06/15 09:29	1
1,1-Dichloroethene	0.000500	U	0.00500	0.000500	mg/L			02/06/15 09:29	1
2-Butanone (MEK)	0.00260	U	0.0250	0.00260	mg/L			02/06/15 09:29	1
Tetrachloroethene	0.000580	U	0.00500	0.000580	mg/L			02/06/15 09:29	1
Trichloroethene	0.000500	U	0.00500	0.000500	mg/L			02/06/15 09:29	1
Vinyl chloride	0.000500	U	0.00500	0.000500	mg/L			02/06/15 09:29	1
Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac			
	%Recovery	Qualifier							
4-Bromofluorobenzene	96		78 - 118					02/06/15 09:29	1
Dibromofluoromethane	110		81 - 121					02/06/15 09:29	1
Toluene-d8 (Surr)	88		80 - 120					02/06/15 09:29	1

**Lab Sample ID: LCS 400-245713/1002**

**Matrix: Waste**

**Analysis Batch: 245713**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

Analyte	Spike		LCS	LCS	Unit	D	%Rec	Limits	%Rec.
	Added	Result							
Benzene	0.0500	0.05092			mg/L		102	79 - 120	
Carbon tetrachloride	0.0500	0.05726			mg/L		115	46 - 141	
Chlorobenzene	0.0500	0.04364			mg/L		87	80 - 120	
Chloroform	0.0500	0.05184			mg/L		104	73 - 122	
1,4-Dichlorobenzene	0.0500	0.04280			mg/L		86	79 - 120	
1,2-Dichloroethane	0.0500	0.05493			mg/L		110	69 - 128	
1,1-Dichloroethene	0.0500	0.05295			mg/L		106	50 - 134	
2-Butanone (MEK)	0.200	0.2559			mg/L		128	62 - 137	
Tetrachloroethene	0.0500	0.04393			mg/L		88	76 - 124	
Trichloroethene	0.0500	0.05441			mg/L		109	77 - 120	
Vinyl chloride	0.0500	0.04919			mg/L		98	60 - 128	
Surrogate	LCS		LCS	LCS	Unit	D	%Rec	Limits	%Rec.
	%Recovery	Qualifier							
4-Bromofluorobenzene	103		78 - 118						
Dibromofluoromethane	108		81 - 121						
Toluene-d8 (Surr)	90		80 - 120						

**Lab Sample ID: LB 400-245651/1-A**

**Matrix: Waste**

**Analysis Batch: 245559**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.000340	U	0.00500	0.000340	mg/L			02/05/15 19:17	1
Carbon tetrachloride	0.000500	U	0.00500	0.000500	mg/L			02/05/15 19:17	1
Chlorobenzene	0.000500	U	0.00500	0.000500	mg/L			02/05/15 19:17	1
Chloroform	0.000600	U	0.00500	0.000600	mg/L			02/05/15 19:17	1
1,4-Dichlorobenzene	0.000640	U	0.00500	0.000640	mg/L			02/05/15 19:17	1
1,2-Dichloroethane	0.000500	U	0.00500	0.000500	mg/L			02/05/15 19:17	1
1,1-Dichloroethene	0.000500	U	0.00500	0.000500	mg/L			02/05/15 19:17	1

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LB 400-245651/1-A**

**Matrix: Waste**

**Analysis Batch: 245559**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2-Butanone (MEK)	0.00260	U	0.0250	0.00260	mg/L			02/05/15 19:17	1
Tetrachloroethene	0.000580	U	0.00500	0.000580	mg/L			02/05/15 19:17	1
Trichloroethene	0.000500	U	0.00500	0.000500	mg/L			02/05/15 19:17	1
Vinyl chloride	0.000500	U	0.00500	0.000500	mg/L			02/05/15 19:17	1

  

Surrogate	LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	96		78 - 118		02/05/15 19:17	1
Dibromofluoromethane	117		81 - 121		02/05/15 19:17	1
Toluene-d8 (Surr)	88		80 - 120		02/05/15 19:17	1

**Lab Sample ID: LB 400-245651/1-A**

**Matrix: Waste**

**Analysis Batch: 245713**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	0.000340	U	0.00500	0.000340	mg/L			02/06/15 13:31	1
Carbon tetrachloride	0.000500	U	0.00500	0.000500	mg/L			02/06/15 13:31	1
Chlorobenzene	0.000500	U	0.00500	0.000500	mg/L			02/06/15 13:31	1
Chloroform	0.000600	U	0.00500	0.000600	mg/L			02/06/15 13:31	1
1,4-Dichlorobenzene	0.000640	U	0.00500	0.000640	mg/L			02/06/15 13:31	1
1,2-Dichloroethane	0.000500	U	0.00500	0.000500	mg/L			02/06/15 13:31	1
1,1-Dichloroethene	0.000500	U	0.00500	0.000500	mg/L			02/06/15 13:31	1
2-Butanone (MEK)	0.00260	U	0.0250	0.00260	mg/L			02/06/15 13:31	1
Tetrachloroethene	0.000580	U	0.00500	0.000580	mg/L			02/06/15 13:31	1
Trichloroethene	0.000500	U	0.00500	0.000500	mg/L			02/06/15 13:31	1
Vinyl chloride	0.000500	U	0.00500	0.000500	mg/L			02/06/15 13:31	1

  

Surrogate	LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene	94		78 - 118		02/06/15 13:31	1
Dibromofluoromethane	110		81 - 121		02/06/15 13:31	1
Toluene-d8 (Surr)	87		80 - 120		02/06/15 13:31	1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

**Lab Sample ID: MB 600-155212/1-A**

**Matrix: Waste**

**Analysis Batch: 155239**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 155212**

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acenaphthene	5.67	U	9.90	5.67	mg/Kg		02/03/15 10:48	02/03/15 16:46	1
Acenaphthylene	5.78	U	9.90	5.78	mg/Kg		02/03/15 10:48	02/03/15 16:46	1
Anthracene	6.22	U	9.90	6.22	mg/Kg		02/03/15 10:48	02/03/15 16:46	1
Benzidine	24.8	U	99.0	24.8	mg/Kg		02/03/15 10:48	02/03/15 16:46	1
Benzo[a]anthracene	6.22	U	9.90	6.22	mg/Kg		02/03/15 10:48	02/03/15 16:46	1
Benzo[b]fluoranthene	0.580	U	9.90	0.580	mg/Kg		02/03/15 10:48	02/03/15 16:46	1
Benzo[k]fluoranthene	0.882	U	9.90	0.882	mg/Kg		02/03/15 10:48	02/03/15 16:46	1
Benzo[g,h,i]perylene	5.26	U	9.90	5.26	mg/Kg		02/03/15 10:48	02/03/15 16:46	1

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 600-155212/1-A**

**Matrix: Waste**

**Analysis Batch: 155239**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 155212**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]pyrene	5.55	U	9.90	5.55	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	1
Bis(2-chloroethoxy)methane	5.59	U	9.90	5.59	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	2
Bis(2-chloroethyl)ether	0.989	U	9.90	0.989	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	3
Bis(2-ethylhexyl) phthalate	6.00	U	9.90	6.00	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	4
4-Bromophenyl phenyl ether	6.00	U	9.90	6.00	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	5
Butyl benzyl phthalate	6.02	U	9.90	6.02	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	6
4-Chloroaniline	1.98	U	9.90	1.98	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	7
2-Chloronaphthalene	6.44	U	9.90	6.44	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	8
4-Chlorophenyl phenyl ether	5.95	U	9.90	5.95	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	9
Carbazole	6.11	U	9.90	6.11	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	10
Chrysene	6.05	U	9.90	6.05	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	11
Di-n-butyl phthalate	6.39	U	9.90	6.39	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	12
Dibenz(a,h)anthracene	5.69	U	9.90	5.69	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	13
Dibenzofuran	5.90	U	9.90	5.90	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	14
1,2-Dichlorobenzene	0.789	U	9.90	0.789	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	1
1,3-Dichlorobenzene	5.34	U	9.90	5.34	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	2
1,4-Dichlorobenzene	0.692	U	9.90	0.692	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	3
3,3'-Dichlorobenzidine	1.91	U	19.8	1.91	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	4
Diethyl phthalate	6.12	U	9.90	6.12	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	5
Dimethyl phthalate	5.99	U	9.90	5.99	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	6
2,4-Dinitrotoluene	0.987	U	9.90	0.987	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	7
2,6-Dinitrotoluene	6.29	U	9.90	6.29	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	8
Di-n-octyl phthalate	6.41	U	9.90	6.41	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	9
Fluoranthene	6.32	U	9.90	6.32	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	10
Fluorene	6.10	U	9.90	6.10	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	11
Hexachlorobenzene	6.24	U	9.90	6.24	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	12
Hexachlorocyclopentadiene	0.668	U	9.90	0.668	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	13
Hexachloroethane	0.897	U	9.90	0.897	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	14
Hexachlorobutadiene	1.02	U	9.90	1.02	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	1
Indeno[1,2,3-cd]pyrene	5.43	U	9.90	5.43	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	2
Isophorone	5.82	U	9.90	5.82	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	3
2-Methylnaphthalene	5.67	U	9.90	5.67	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	4
Naphthalene	0.579	U	9.90	0.579	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	5
2-Nitroaniline	5.84	U	48.0	5.84	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	6
3-Nitroaniline	6.35	U	48.0	6.35	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	7
4-Nitroaniline	5.41	U	48.0	5.41	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	8
Nitrobenzene	1.42	U	9.90	1.42	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	9
N-Nitrosodimethylamine	2.86	U	9.90	2.86	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	10
N-Nitrosodiphenylamine	0.946	U	9.90	0.946	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	11
N-Nitrosodi-n-propylamine	0.858	U	9.90	0.858	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	12
Phenanthrene	6.09	U	9.90	6.09	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	13
Pyrene	6.63	U	9.90	6.63	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	14
1,2,4-Trichlorobenzene	6.32	U	9.90	6.32	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	1
Benzyl alcohol	1.87	U	9.90	1.87	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	2
4-Chloro-3-methylphenol	5.76	U	9.90	5.76	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	3
2-Chlorophenol	0.699	U	9.90	0.699	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	4
2-Methylphenol	1.14	U	9.90	1.14	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	5
3 & 4 Methylphenol	0.902	U	19.8	0.902	mg/Kg	02/03/15 10:48	02/03/15 16:46	1	6

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: MB 600-155212/1-A**

**Matrix: Waste**

**Analysis Batch: 155239**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 155212**

Analyte	MB		RL	MDL	Unit	D	Prepared		Analyzed	Dil Fac
	Result	Qualifier					Prepared	Analyzed		
2,4-Dichlorophenol	5.48	U	9.90	5.48	mg/Kg	02/03/15 10:48	02/03/15 16:46		1	
2,4-Dimethylphenol	1.91	U	9.90	1.91	mg/Kg	02/03/15 10:48	02/03/15 16:46		1	
4,6-Dinitro-2-methylphenol	6.20	U	48.0	6.20	mg/Kg	02/03/15 10:48	02/03/15 16:46		1	
2,4-Dinitrophenol	3.84	U	48.0	3.84	mg/Kg	02/03/15 10:48	02/03/15 16:46		1	
2-Nitrophenol	5.40	U	9.90	5.40	mg/Kg	02/03/15 10:48	02/03/15 16:46		1	
4-Nitrophenol	5.40	U	48.0	5.40	mg/Kg	02/03/15 10:48	02/03/15 16:46		1	
Pentachlorophenol	0.664	U	48.0	0.664	mg/Kg	02/03/15 10:48	02/03/15 16:46		1	
Phenol	1.12	U	9.90	1.12	mg/Kg	02/03/15 10:48	02/03/15 16:46		1	
2,4,5-Trichlorophenol	1.86	U	9.90	1.86	mg/Kg	02/03/15 10:48	02/03/15 16:46		1	
2,4,6-Trichlorophenol	5.40	U	9.90	5.40	mg/Kg	02/03/15 10:48	02/03/15 16:46		1	
bis (2-Chloroisopropyl) ether	1.04	U	9.90	1.04	mg/Kg	02/03/15 10:48	02/03/15 16:46		1	

Surrogate	MB		Limits	Prepared		Analyzed	Dil Fac
	%Recovery	Qualifier		Prepared	Analyzed		
Nitrobenzene-d5	84		46 - 130	02/03/15 10:48	02/03/15 16:46		1
2-Fluorophenol	96		45 - 130	02/03/15 10:48	02/03/15 16:46		1
2-Fluorobiphenyl	93		42 - 130	02/03/15 10:48	02/03/15 16:46		1
2,4,6-Tribromophenol	84		25 - 130	02/03/15 10:48	02/03/15 16:46		1
Terphenyl-d14	96		51 - 130	02/03/15 10:48	02/03/15 16:46		1
Phenol-d5 (Surr)	86		48 - 130	02/03/15 10:48	02/03/15 16:46		1

**Lab Sample ID: LCS 600-155212/2-A**

**Matrix: Waste**

**Analysis Batch: 155239**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155212**

Analyte	Spike		LCS		Unit	D	%Rec.		Limits
	Added	Result	Result	Qualifier			%Rec	Limits	
Acenaphthene	50.0	47.16	47.16	J	mg/Kg	94	60 - 130		
Acenaphthylene	50.0	47.56			mg/Kg	95	61 - 130		
Anthracene	50.0	48.64			mg/Kg	97	69 - 130		
Benzidine	100	29.03	29.03	J	mg/Kg	29	10 - 150		
Benzo[a]anthracene	50.0	52.46			mg/Kg	105	70 - 130		
Benzo[b]fluoranthene	50.0	46.77			mg/Kg	94	61 - 130		
Benzo[k]fluoranthene	50.0	47.37			mg/Kg	95	70 - 130		
Benzo[g,h,i]perylene	50.0	48.66			mg/Kg	97	56 - 130		
Benzo[a]pyrene	50.0	48.57			mg/Kg	97	70 - 130		
Bis(2-chloroethoxy)methane	50.0	46.17			mg/Kg	92	58 - 130		
Bis(2-chloroethyl)ether	50.0	51.26			mg/Kg	103	53 - 130		
Bis(2-ethylhexyl) phthalate	50.0	52.33			mg/Kg	105	57 - 130		
4-Bromophenyl phenyl ether	50.0	40.60			mg/Kg	81	66 - 130		
Butyl benzyl phthalate	50.0	50.13			mg/Kg	100	57 - 130		
4-Chloroaniline	50.0	45.86			mg/Kg	92	63 - 130		
2-Chloronaphthalene	50.0	42.09			mg/Kg	84	60 - 130		
4-Chlorophenyl phenyl ether	50.0	50.30			mg/Kg	101	67 - 130		
Carbazole	50.0	49.19			mg/Kg	98	61 - 130		
Chrysene	50.0	52.16			mg/Kg	104	67 - 130		
Di-n-butyl phthalate	50.0	49.22			mg/Kg	98	61 - 130		
Dibenz(a,h)anthracene	50.0	45.72			mg/Kg	91	60 - 130		
Dibenzofuran	50.0	50.59			mg/Kg	101	66 - 130		
1,2-Dichlorobenzene	50.0	45.29			mg/Kg	91	59 - 130		

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 600-155212/2-A**

**Matrix: Waste**

**Analysis Batch: 155239**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155212**

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits	%Rec.
		Result	Qualifier					
1,3-Dichlorobenzene	50.0	42.53		mg/Kg		85	58 - 130	
1,4-Dichlorobenzene	50.0	44.12		mg/Kg		88	59 - 130	
3,3'-Dichlorobenzidine	50.0	45.55		mg/Kg		91	64 - 130	
Diethyl phthalate	50.0	53.18		mg/Kg		106	62 - 130	
Dimethyl phthalate	50.0	52.85		mg/Kg		106	66 - 130	
2,4-Dinitrotoluene	50.0	55.47		mg/Kg		111	66 - 130	
2,6-Dinitrotoluene	50.0	52.93		mg/Kg		106	65 - 130	
Di-n-octyl phthalate	50.0	53.14		mg/Kg		106	58 - 130	
Fluoranthene	50.0	51.19		mg/Kg		102	68 - 130	
Fluorene	50.0	52.99		mg/Kg		106	67 - 130	
Hexachlorobenzene	50.0	42.76		mg/Kg		86	64 - 130	
Hexachlorocyclopentadiene	50.0	47.34		mg/Kg		95	10 - 130	
Hexachloroethane	50.0	43.88		mg/Kg		88	49 - 130	
Hexachlorobutadiene	50.0	43.06		mg/Kg		86	52 - 130	
Indeno[1,2,3-cd]pyrene	50.0	48.17		mg/Kg		96	49 - 130	
Isophorone	50.0	42.51		mg/Kg		85	57 - 130	
2-Methylnaphthalene	50.0	64.23		mg/Kg		128	66 - 130	
Naphthalene	50.0	46.89		mg/Kg		94	63 - 130	
2-Nitroaniline	50.0	50.28		mg/Kg		101	56 - 132	
3-Nitroaniline	50.0	64.27		mg/Kg		129	65 - 130	
4-Nitroaniline	50.0	100.4 *		mg/Kg		201	59 - 133	
Nitrobenzene	50.0	38.12		mg/Kg		76	41 - 140	
N-Nitrosodimethylamine	50.0	41.43		mg/Kg		83	53 - 139	
N-Nitrosodiphenylamine	50.0	45.60		mg/Kg		91	70 - 130	
N-Nitrosodi-n-propylamine	50.0	48.17		mg/Kg		96	54 - 142	
Phenanthrene	50.0	50.79		mg/Kg		102	68 - 130	
Pyrene	50.0	47.21		mg/Kg		94	64 - 130	
1,2,4-Trichlorobenzene	50.0	41.58		mg/Kg		83	59 - 130	
Benzyl alcohol	50.0	54.26		mg/Kg		109	58 - 130	
4-Chloro-3-methylphenol	50.0	52.05		mg/Kg		104	62 - 130	
2-Chlorophenol	50.0	46.80		mg/Kg		94	60 - 130	
2-Methylphenol	50.0	48.43		mg/Kg		97	64 - 130	
3 & 4 Methylphenol	50.0	35.53		mg/Kg		71	65 - 130	
2,4-Dichlorophenol	50.0	48.96		mg/Kg		98	66 - 130	
2,4-Dimethylphenol	50.0	52.96		mg/Kg		106	56 - 130	
4,6-Dinitro-2-methylphenol	100	102.1		mg/Kg		102	29 - 132	
2,4-Dinitrophenol	100	122.8		mg/Kg		123	10 - 147	
2-Nitrophenol	50.0	42.63		mg/Kg		85	63 - 130	
4-Nitrophenol	100	127.1		mg/Kg		127	23 - 137	
Pentachlorophenol	100	113.7		mg/Kg		114	27 - 130	
Phenol	50.0	46.30		mg/Kg		93	61 - 130	
2,4,5-Trichlorophenol	50.0	57.16		mg/Kg		114	58 - 130	
2,4,6-Trichlorophenol	50.0	46.33		mg/Kg		93	60 - 130	
bis (2-Chloroisopropyl) ether	50.0	47.86		mg/Kg		96	41 - 130	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	71		46 - 130
2-Fluorophenol	89		45 - 130

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 600-155212/2-A**

**Matrix: Waste**

**Analysis Batch: 155239**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155212**

Surrogate	LCS	LCS	
	%Recovery	Qualifier	Limits
2-Fluorobiphenyl	101		42 - 130
2,4,6-Tribromophenol	94		25 - 130
Terphenyl-d14	94		51 - 130
Phenol-d5 (Surr)	90		48 - 130

**Lab Sample ID: MB 600-155258/1-A**

**Matrix: Waste**

**Analysis Batch: 155291**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 155258**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pyridine	0.00216	U	0.0100	0.00216	mg/L		02/03/15 15:06	02/04/15 14:49	1
1,4-Dichlorobenzene	0.00178	U	0.0100	0.00178	mg/L		02/03/15 15:06	02/04/15 14:49	1
2,4-Dinitrotoluene	0.00263	U	0.0100	0.00263	mg/L		02/03/15 15:06	02/04/15 14:49	1
Hexachlorobenzene	0.00259	U	0.0100	0.00259	mg/L		02/03/15 15:06	02/04/15 14:49	1
Hexachloroethane	0.00220	U	0.0100	0.00220	mg/L		02/03/15 15:06	02/04/15 14:49	1
Hexachlorobutadiene	0.00212	U	0.0100	0.00212	mg/L		02/03/15 15:06	02/04/15 14:49	1
Nitrobenzene	0.00248	U	0.0100	0.00248	mg/L		02/03/15 15:06	02/04/15 14:49	1
2-Methylphenol	0.00181	U	0.0100	0.00181	mg/L		02/03/15 15:06	02/04/15 14:49	1
3 & 4 Methylphenol	0.00188	U	0.0200	0.00188	mg/L		02/03/15 15:06	02/04/15 14:49	1
Pentachlorophenol	0.00462	U	0.0500	0.00462	mg/L		02/03/15 15:06	02/04/15 14:49	1
2,4,5-Trichlorophenol	0.00271	U	0.0100	0.00271	mg/L		02/03/15 15:06	02/04/15 14:49	1
2,4,6-Trichlorophenol	0.00259	U	0.0100	0.00259	mg/L		02/03/15 15:06	02/04/15 14:49	1

Surrogate	MB	MB							
	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	81		35 - 130						
2-Fluorophenol	83		10 - 130						
2-Fluorobiphenyl	86		41 - 130						
2,4,6-Tribromophenol	79		12 - 138						
Terphenyl-d14	107		43 - 130						
Phenol-d5 (Surr)	78		10 - 130						

**Lab Sample ID: LCS 600-155258/2-A**

**Matrix: Waste**

**Analysis Batch: 155291**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155258**

Analyte	Spike	LCS	LCS	%Rec.		
	Added	Result	Qualifier	Unit	D	%Rec
Pyridine	0.0500	0.03130		mg/L	63	10 - 130
1,4-Dichlorobenzene	0.0500	0.04025		mg/L	80	57 - 130
2,4-Dinitrotoluene	0.0500	0.04550		mg/L	91	60 - 130
Hexachlorobenzene	0.0500	0.04578		mg/L	92	61 - 130
Hexachloroethane	0.0500	0.03965		mg/L	79	52 - 130
Hexachlorobutadiene	0.0500	0.03945		mg/L	79	52 - 130
Nitrobenzene	0.0500	0.03971		mg/L	79	55 - 130
2-Methylphenol	0.0500	0.04159		mg/L	83	39 - 130
3 & 4 Methylphenol	0.0500	0.04170		mg/L	83	29 - 130
Pentachlorophenol	0.100	0.07029		mg/L	70	29 - 141
2,4,5-Trichlorophenol	0.0500	0.04223		mg/L	84	51 - 130
2,4,6-Trichlorophenol	0.0500	0.04022		mg/L	80	49 - 130

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 600-155258/2-A**

**Matrix: Waste**

**Analysis Batch: 155291**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155258**

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Nitrobenzene-d5	75		35 - 130
2-Fluorophenol	76		10 - 130
2-Fluorobiphenyl	83		41 - 130
2,4,6-Tribromophenol	97		12 - 138
Terphenyl-d14	103		43 - 130
Phenol-d5 (Surr)	73		10 - 130

**Lab Sample ID: MB 600-155349/1-A**

**Matrix: Waste**

**Analysis Batch: 155398**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 155349**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyridine	0.00216	U	0.0100	0.00216	mg/L		02/04/15 12:21	02/05/15 09:20	1
1,4-Dichlorobenzene	0.00178	U	0.0100	0.00178	mg/L		02/04/15 12:21	02/05/15 09:20	1
2,4-Dinitrotoluene	0.00263	U	0.0100	0.00263	mg/L		02/04/15 12:21	02/05/15 09:20	1
Hexachlorobenzene	0.00259	U	0.0100	0.00259	mg/L		02/04/15 12:21	02/05/15 09:20	1
Hexachloroethane	0.00220	U	0.0100	0.00220	mg/L		02/04/15 12:21	02/05/15 09:20	1
Hexachlorobutadiene	0.00212	U	0.0100	0.00212	mg/L		02/04/15 12:21	02/05/15 09:20	1
Nitrobenzene	0.00248	U	0.0100	0.00248	mg/L		02/04/15 12:21	02/05/15 09:20	1
2-Methylphenol	0.00181	U	0.0100	0.00181	mg/L		02/04/15 12:21	02/05/15 09:20	1
3 & 4 Methylphenol	0.00188	U	0.0200	0.00188	mg/L		02/04/15 12:21	02/05/15 09:20	1
Pentachlorophenol	0.00462	U	0.0500	0.00462	mg/L		02/04/15 12:21	02/05/15 09:20	1
2,4,5-Trichlorophenol	0.00271	U	0.0100	0.00271	mg/L		02/04/15 12:21	02/05/15 09:20	1
2,4,6-Trichlorophenol	0.00259	U	0.0100	0.00259	mg/L		02/04/15 12:21	02/05/15 09:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Nitrobenzene-d5	80		35 - 130		02/04/15 12:21	02/05/15 09:20
2-Fluorophenol	84		10 - 130		02/04/15 12:21	02/05/15 09:20
2-Fluorobiphenyl	85		41 - 130		02/04/15 12:21	02/05/15 09:20
2,4,6-Tribromophenol	84		12 - 138		02/04/15 12:21	02/05/15 09:20
Terphenyl-d14	101		43 - 130		02/04/15 12:21	02/05/15 09:20
Phenol-d5 (Surr)	80		10 - 130		02/04/15 12:21	02/05/15 09:20

**Lab Sample ID: LCS 600-155349/2-A**

**Matrix: Waste**

**Analysis Batch: 155398**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155349**

Analyte	Spike Added	LCS			Unit	D	%Rec	Limits
		Result	Qualifier	%Rec.				
Pyridine	0.0500	0.03219		64	mg/L		10 - 130	
1,4-Dichlorobenzene	0.0500	0.04207		84	mg/L		57 - 130	
2,4-Dinitrotoluene	0.0500	0.04592		92	mg/L		60 - 130	
Hexachlorobenzene	0.0500	0.04699		94	mg/L		61 - 130	
Hexachloroethane	0.0500	0.04204		84	mg/L		52 - 130	
Hexachlorobutadiene	0.0500	0.04115		82	mg/L		52 - 130	
Nitrobenzene	0.0500	0.04199		84	mg/L		55 - 130	
2-Methylphenol	0.0500	0.04456		89	mg/L		39 - 130	
3 & 4 Methylphenol	0.0500	0.04508		90	mg/L		29 - 130	
Pentachlorophenol	0.100	0.06736		67	mg/L		29 - 141	

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LCS 600-155349/2-A**

**Matrix: Waste**

**Analysis Batch: 155398**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155349**

Analyte	Spike Added	LCS			Unit	D	%Rec.	Limits
		Result	Qualifier	%Rec.				
2,4,5-Trichlorophenol	0.0500	0.04379			mg/L		88	51 - 130
2,4,6-Trichlorophenol	0.0500	0.04308			mg/L		86	49 - 130

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Nitrobenzene-d5	77		35 - 130
2-Fluorophenol	78		10 - 130
2-Fluorobiphenyl	85		41 - 130
2,4,6-Tribromophenol	97		12 - 138
Terphenyl-d14	98		43 - 130
Phenol-d5 (Surr)	76		10 - 130

**Lab Sample ID: LB 600-155165/1-C**

**Matrix: Waste**

**Analysis Batch: 155291**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 155258**

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pyridine	0.0108	U	0.0500	0.0108	mg/L		02/03/15 17:06	02/04/15 21:36	1
1,4-Dichlorobenzene	0.00890	U	0.0500	0.00890	mg/L		02/03/15 17:06	02/04/15 21:36	1
2,4-Dinitrotoluene	0.0132	U	0.0500	0.0132	mg/L		02/03/15 17:06	02/04/15 21:36	1
Hexachlorobenzene	0.0130	U	0.0500	0.0130	mg/L		02/03/15 17:06	02/04/15 21:36	1
Hexachloroethane	0.0110	U	0.0500	0.0110	mg/L		02/03/15 17:06	02/04/15 21:36	1
Hexachlorobutadiene	0.0106	U	0.0500	0.0106	mg/L		02/03/15 17:06	02/04/15 21:36	1
Nitrobenzene	0.0124	U	0.0500	0.0124	mg/L		02/03/15 17:06	02/04/15 21:36	1
2-Methylphenol	0.00905	U	0.0500	0.00905	mg/L		02/03/15 17:06	02/04/15 21:36	1
3 & 4 Methylphenol	0.00940	U	0.100	0.00940	mg/L		02/03/15 17:06	02/04/15 21:36	1
Pentachlorophenol	0.0231	U	0.250	0.0231	mg/L		02/03/15 17:06	02/04/15 21:36	1
2,4,5-Trichlorophenol	0.0136	U	0.0500	0.0136	mg/L		02/03/15 17:06	02/04/15 21:36	1
2,4,6-Trichlorophenol	0.0129	U	0.0500	0.0129	mg/L		02/03/15 17:06	02/04/15 21:36	1

Surrogate	LB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
Nitrobenzene-d5	78		35 - 130	02/03/15 17:06	02/04/15 21:36	1
2-Fluorophenol	74		10 - 130	02/03/15 17:06	02/04/15 21:36	1
2-Fluorobiphenyl	83		41 - 130	02/03/15 17:06	02/04/15 21:36	1
2,4,6-Tribromophenol	98		12 - 138	02/03/15 17:06	02/04/15 21:36	1
Terphenyl-d14	102		43 - 130	02/03/15 17:06	02/04/15 21:36	1
Phenol-d5 (Surr)	56		10 - 130	02/03/15 17:06	02/04/15 21:36	1

**Lab Sample ID: LB 600-155166/1-C**

**Matrix: Waste**

**Analysis Batch: 155291**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 155258**

Analyte	LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Pyridine	0.0108	U	0.0500	0.0108	mg/L		02/03/15 17:06	02/04/15 15:51	1
1,4-Dichlorobenzene	0.00890	U	0.0500	0.00890	mg/L		02/03/15 17:06	02/04/15 15:51	1
2,4-Dinitrotoluene	0.0132	U	0.0500	0.0132	mg/L		02/03/15 17:06	02/04/15 15:51	1
Hexachlorobenzene	0.0130	U	0.0500	0.0130	mg/L		02/03/15 17:06	02/04/15 15:51	1
Hexachloroethane	0.0110	U	0.0500	0.0110	mg/L		02/03/15 17:06	02/04/15 15:51	1
Hexachlorobutadiene	0.0106	U	0.0500	0.0106	mg/L		02/03/15 17:06	02/04/15 15:51	1

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-105998-1

Project/Site: CB&I Federal Services LLC . . - Houston

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LB 600-155166/1-C**

**Client Sample ID: Method Blank**

**Matrix: Waste**

**Prep Type: TCLP**

**Analysis Batch: 155291**

**Prep Batch: 155258**

Analyte	LB		RL	MDL	Unit	D	Prepared		Dil Fac
	Result	Qualifier					Prepared	Analyzed	
Nitrobenzene	0.0124	U	0.0500	0.0124	mg/L	02/03/15 17:06	02/04/15 15:51	1	
2-Methylphenol	0.00905	U	0.0500	0.00905	mg/L	02/03/15 17:06	02/04/15 15:51	1	
3 & 4 Methylphenol	0.00940	U	0.100	0.00940	mg/L	02/03/15 17:06	02/04/15 15:51	1	
Pentachlorophenol	0.0231	U	0.250	0.0231	mg/L	02/03/15 17:06	02/04/15 15:51	1	
2,4,5-Trichlorophenol	0.0136	U	0.0500	0.0136	mg/L	02/03/15 17:06	02/04/15 15:51	1	
2,4,6-Trichlorophenol	0.0129	U	0.0500	0.0129	mg/L	02/03/15 17:06	02/04/15 15:51	1	
LB		LB		Limits		Prepared		Dil Fac	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed		
Nitrobenzene-d5	75		35 - 130			02/03/15 17:06	02/04/15 15:51	1	
2-Fluorophenol	61		10 - 130			02/03/15 17:06	02/04/15 15:51	1	
2-Fluorobiphenyl	83		41 - 130			02/03/15 17:06	02/04/15 15:51	1	
2,4,6-Tribromophenol	82		12 - 138			02/03/15 17:06	02/04/15 15:51	1	
Terphenyl-d14	92		43 - 130			02/03/15 17:06	02/04/15 15:51	1	
Phenol-d5 (Surr)	41		10 - 130			02/03/15 17:06	02/04/15 15:51	1	

**Lab Sample ID: 600-105998-3 MS**

**Client Sample ID: SludgeComp-3-012915**

**Matrix: Waste**

**Prep Type: TCLP**

**Analysis Batch: 155291**

**Prep Batch: 155258**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier				
Pyridine	0.0541	U	0.250	0.0541	U F1	mg/L	0	10 - 130	
1,4-Dichlorobenzene	0.0445	U	0.250	0.2252	J	mg/L	90	57 - 130	
2,4-Dinitrotoluene	0.0658	U	0.250	0.2230	J	mg/L	89	60 - 130	
Hexachlorobenzene	0.0648	U	0.250	0.2464	J	mg/L	99	61 - 130	
Hexachloroethane	0.0549	U	0.250	0.2311	J	mg/L	92	52 - 130	
Hexachlorobutadiene	0.0529	U	0.250	0.2150	J	mg/L	86	52 - 130	
Nitrobenzene	0.0621	U	0.250	0.2002	J	mg/L	80	55 - 130	
2-Methylphenol	0.131	J	0.250	0.3923		mg/L	104	39 - 130	
3 & 4 Methylphenol	0.389	J	0.250	0.6807		mg/L	117	29 - 130	
Pentachlorophenol	0.116	U	0.500	0.7675	J F1	mg/L	154	29 - 141	
2,4,5-Trichlorophenol	0.0679	U	0.250	0.2372	J	mg/L	95	51 - 130	
2,4,6-Trichlorophenol	0.0647	U	0.250	0.2367	J	mg/L	95	49 - 130	
MS		MS		Limits					
Surrogate	%Recovery	Qualifier	Limits						
Nitrobenzene-d5	84		35 - 130						
2-Fluorophenol	74		10 - 130						
2-Fluorobiphenyl	96		41 - 130						
2,4,6-Tribromophenol	116		12 - 138						
Terphenyl-d14	105		43 - 130						
Phenol-d5 (Surr)	68		10 - 130						

**Lab Sample ID: LB 600-155282/1-D**

**Client Sample ID: Method Blank**

**Matrix: Waste**

**Prep Type: TCLP**

**Analysis Batch: 155398**

**Prep Batch: 155349**

Analyte	LB		RL	MDL	Unit	D	Prepared		Dil Fac
	Result	Qualifier					Prepared	Analyzed	
Pyridine	0.0108	U	0.0500	0.0108	mg/L	02/04/15 12:21	02/05/15 10:22	1	
1,4-Dichlorobenzene	0.00890	U	0.0500	0.00890	mg/L	02/04/15 12:21	02/05/15 10:22	1	

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

**Lab Sample ID: LB 600-155282/1-D**

**Matrix: Waste**

**Analysis Batch: 155398**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 155349**

Analyte	LB	LB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
2,4-Dinitrotoluene	0.0132	U	0.0500		0.0132	mg/L		02/04/15 12:21	02/05/15 10:22		1
Hexachlorobenzene	0.0130	U	0.0500		0.0130	mg/L		02/04/15 12:21	02/05/15 10:22		1
Hexachloroethane	0.0110	U	0.0500		0.0110	mg/L		02/04/15 12:21	02/05/15 10:22		1
Hexachlorobutadiene	0.0106	U	0.0500		0.0106	mg/L		02/04/15 12:21	02/05/15 10:22		1
Nitrobenzene	0.0124	U	0.0500		0.0124	mg/L		02/04/15 12:21	02/05/15 10:22		1
2-Methylphenol	0.00905	U	0.0500		0.00905	mg/L		02/04/15 12:21	02/05/15 10:22		1
3 & 4 Methylphenol	0.00940	U	0.100		0.00940	mg/L		02/04/15 12:21	02/05/15 10:22		1
Pentachlorophenol	0.0231	U	0.250		0.0231	mg/L		02/04/15 12:21	02/05/15 10:22		1
2,4,5-Trichlorophenol	0.0136	U	0.0500		0.0136	mg/L		02/04/15 12:21	02/05/15 10:22		1
2,4,6-Trichlorophenol	0.0129	U	0.0500		0.0129	mg/L		02/04/15 12:21	02/05/15 10:22		1
Surrogate	LB	LB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Nitrobenzene-d5	87		35 - 130						02/04/15 12:21	02/05/15 10:22	
2-Fluorophenol	63		10 - 130						02/04/15 12:21	02/05/15 10:22	
2-Fluorobiphenyl	87		41 - 130						02/04/15 12:21	02/05/15 10:22	
2,4,6-Tribromophenol	87		12 - 138						02/04/15 12:21	02/05/15 10:22	
Terphenyl-d14	101		43 - 130						02/04/15 12:21	02/05/15 10:22	
Phenol-d5 (Surr)	42		10 - 130						02/04/15 12:21	02/05/15 10:22	

**Lab Sample ID: 600-105998-2 MS**

**Matrix: Waste**

**Analysis Batch: 155398**

**Client Sample ID: SludgeComp-5-012915**

**Prep Type: TCLP**

**Prep Batch: 155349**

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	Limits	Prepared	Analyzed
	Result	Qualifier	Added	Result	Qualifier						
Pyridine	0.216	U	0.250	0.216	U F1	mg/L		0	10 - 130		
1,4-Dichlorobenzene	0.178	U	0.250	0.2440	J	mg/L		98	57 - 130		
2,4-Dinitrotoluene	0.263	U	0.250	0.263	U	mg/L		NC	60 - 130		
Hexachlorobenzene	0.259	U	0.250	0.259	U	mg/L		NC	61 - 130		
Hexachloroethane	0.220	U	0.250	0.9425	J F1	mg/L		377	52 - 130		
Hexachlorobutadiene	0.212	U	0.250	0.2204	J	mg/L		88	52 - 130		
Nitrobenzene	0.248	U	0.250	0.2801	J	mg/L		112	55 - 130		
2-Methylphenol	0.377	J	0.250	0.8473	J F1	mg/L		188	39 - 130		
3 & 4 Methylphenol	1.09	J	0.250	1.981	J 4	mg/L		358	29 - 130		
Pentachlorophenol	0.462	U	0.500	0.462	U F1	mg/L		0	29 - 141		
2,4,5-Trichlorophenol	0.271	U	0.250	0.271	U	mg/L		NC	51 - 130		
2,4,6-Trichlorophenol	0.259	U	0.250	0.2637	J	mg/L		NC	49 - 130		
Surrogate	MS	MS	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Nitrobenzene-d5	122		35 - 130								
2-Fluorophenol	45		10 - 130								
2-Fluorobiphenyl	122		41 - 130								
2,4,6-Tribromophenol	89		12 - 138								
Terphenyl-d14	117		43 - 130								
Phenol-d5 (Surr)	23		10 - 130								

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8081A - Organochlorine Pesticides (GC)

**Lab Sample ID: MB 600-155217/1-A**

**Matrix: Waste**

**Analysis Batch: 155204**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 155217**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
4,4'-DDD	0.0486	U	0.0990	0.0486	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
4,4'-DDE	0.0435	U	0.0990	0.0435	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
4,4'-DDT	0.0555	U	0.0990	0.0555	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
Aldrin	0.0393	U	0.0510	0.0393	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
alpha-BHC	0.0300	U	0.0510	0.0300	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
beta-BHC	0.0306	U	0.0510	0.0306	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
Chlordane (n.o.s.)	0.0450	U	0.990	0.0450	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
delta-BHC	0.0255	U	0.0510	0.0255	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
Dieldrin	0.0417	U	0.0990	0.0417	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
Endosulfan I	0.0300	U	0.0510	0.0300	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
Endosulfan II	0.0453	U	0.0510	0.0453	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
Endosulfan sulfate	0.0504	U	0.0990	0.0504	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
Endrin	0.0459	U	0.0990	0.0459	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
Endrin aldehyde	0.0468	U	0.0990	0.0468	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
gamma-BHC (Lindane)	0.0279	U	0.0510	0.0279	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
Heptachlor	0.0279	U	0.0510	0.0279	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
Heptachlor epoxide	0.0351	U	0.0510	0.0351	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
Methoxychlor	0.242	U	0.510	0.242	mg/Kg		02/03/15 11:11	02/03/15 10:49	1
Toxaphene	2.19	U	5.10	2.19	mg/Kg		02/03/15 11:11	02/03/15 10:49	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
DCB Decachlorobiphenyl	88		47 - 177	02/03/15 11:11	02/03/15 10:49	1
Tetrachloro-m-xylene	79		50 - 143	02/03/15 11:11	02/03/15 10:49	1

**Lab Sample ID: LCS 600-155217/2-A**

**Matrix: Waste**

**Analysis Batch: 155204**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155217**

Analyte	Spike	LCS	LCS	%Rec.		
	Added	Result	Qualifier	Unit	D	%Rec
4,4'-DDD	0.500	0.5656		mg/Kg	113	42 - 150
4,4'-DDE	0.500	0.4916		mg/Kg	98	46 - 150
4,4'-DDT	0.500	0.5504		mg/Kg	110	46 - 150
Aldrin	0.500	0.5747		mg/Kg	115	42 - 150
alpha-BHC	0.500	0.5607		mg/Kg	112	63 - 130
beta-BHC	0.500	0.5607		mg/Kg	112	32 - 150
delta-BHC	0.500	0.3517		mg/Kg	70	33 - 150
Dieldrin	0.500	0.5729		mg/Kg	115	42 - 150
Endosulfan I	0.500	0.6973		mg/Kg	139	37 - 150
Endosulfan II	0.500	0.5764		mg/Kg	115	43 - 150
Endosulfan sulfate	0.500	0.5267		mg/Kg	105	32 - 150
Endrin	0.500	0.6202		mg/Kg	124	41 - 150
Endrin aldehyde	0.500	0.6451		mg/Kg	129	42 - 150
gamma-BHC (Lindane)	0.500	0.5601		mg/Kg	112	36 - 150
Heptachlor	0.500	0.5983		mg/Kg	120	35 - 150
Methoxychlor	0.500	0.6190		mg/Kg	124	48 - 150

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

**Lab Sample ID:** LCS 600-155217/2-A

**Matrix:** Waste

**Analysis Batch:** 155204

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 155217

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl	93		47 - 177
Tetrachloro-m-xylene	78		50 - 143

## Method: 8151A - Herbicides (GC)

**Lab Sample ID:** MB 600-155226/1-A

**Matrix:** Waste

**Analysis Batch:** 155311

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 155226

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dicamba	0.0230	U	0.200	0.0230	mg/Kg		02/03/15 12:09	02/04/15 13:28	1
Mecoprop	2.29	U	2.00	2.29	mg/Kg		02/03/15 12:09	02/04/15 13:28	1
MCPA	3.25	U	2.00	3.25	mg/Kg		02/03/15 12:09	02/04/15 13:28	1
Dichlorprop	0.0225	U	0.200	0.0225	mg/Kg		02/03/15 12:09	02/04/15 13:28	1
2,4-D	0.0170	U	0.200	0.0170	mg/Kg		02/03/15 12:09	02/04/15 13:28	1
Silvex (2,4,5-TP)	0.0215	U	0.200	0.0215	mg/Kg		02/03/15 12:09	02/04/15 13:28	1
2,4,5-T	0.0220	U	0.200	0.0220	mg/Kg		02/03/15 12:09	02/04/15 13:28	1
2,4-DB	0.0330	U	0.200	0.0330	mg/Kg		02/03/15 12:09	02/04/15 13:28	1
Dinoseb	0.0160	U	0.200	0.0160	mg/Kg		02/03/15 12:09	02/04/15 13:28	1

  

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4-DCAA	88		10 - 125. 2	02/03/15 12:09	02/04/15 13:28	1

**Lab Sample ID:** LCS 600-155226/2-A

**Matrix:** Waste

**Analysis Batch:** 155311

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 155226

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
Dicamba	0.800	0.7207		mg/Kg		90	31 - 124
Mecoprop	80.0	57.14		mg/Kg		71	10 - 176
MCPA	80.0	99.39		mg/Kg		124	26 - 164
Dichlorprop	0.800	0.6535		mg/Kg		82	42 - 127
2,4-D	0.800	0.9895		mg/Kg		124	25 - 151
Silvex (2,4,5-TP)	0.800	0.7562		mg/Kg		95	47 - 136
2,4,5-T	0.800	0.7556		mg/Kg		94	36 - 140
2,4-DB	0.800	0.6752		mg/Kg		84	24 - 164
Dinoseb	0.800	0.9590		mg/Kg		120	11 - 130

  

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4-DCAA	97		10 - 125. 2

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

## Method: TX 1005 - Texas - Total Petroleum Hydrocarbon (GC)

**Lab Sample ID:** MB 600-155146/1-A

**Matrix:** Waste

**Analysis Batch:** 155150

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 155146

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
C6-C12	3.80	U	10.0	3.80	mg/Kg		02/02/15 15:15	02/02/15 22:56	1
>C12-C28	4.06	U	10.0	4.06	mg/Kg		02/02/15 15:15	02/02/15 22:56	1
>C28-C35	4.06	U	10.0	4.06	mg/Kg		02/02/15 15:15	02/02/15 22:56	1
C6-C35	3.80	U	10.0	3.80	mg/Kg		02/02/15 15:15	02/02/15 22:56	1

  

Surrogate	MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o-Terphenyl</i>	92		70 - 130	02/02/15 15:15	02/02/15 22:56	1

**Lab Sample ID:** LCS 600-155146/2-A

**Matrix:** Waste

**Analysis Batch:** 155150

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 155146

Analyte	Spike		Result	LCS	LCS	Unit	D	%Rec.	Limits
	Added								
C6-C12	250		236.7			mg/Kg		95	75 - 125
>C12-C28	250		229.6			mg/Kg		92	75 - 125
C6-C35	500		466.3			mg/Kg		93	75 - 125

  

Surrogate	LCS		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
<i>o-Terphenyl</i>	91		70 - 130			

## Method: 9056A - Anions, Ion Chromatography

**Lab Sample ID:** MB 490-226400/1-A

**Matrix:** Waste

**Analysis Batch:** 226474

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 226400

Analyte	MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chloride	500	U	500	500	mg/Kg		02/09/15 13:54	02/09/15 16:34	10

**Lab Sample ID:** 600-105998-3 DU

**Matrix:** Waste

**Analysis Batch:** 226474

**Client Sample ID:** SludgeComp-3-012915

**Prep Type:** Total/NA

**Prep Batch:** 226400

Analyte	Sample		DU	DU	Unit	D	RPD	Limit
	Result	Qualifier						
Chloride	2310		1764	F5	mg/Kg		27	20

**Lab Sample ID:** LCS 490-226474/5

**Matrix:** Waste

**Analysis Batch:** 226474

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

Analyte	Spike		Result	LCS	LCS	Unit	D	%Rec.	Limits
	Added								
Chloride	50.0		49.00			mg/Kg		98	80 - 120

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 9056A - Anions, Ion Chromatography (Continued)

**Lab Sample ID:** LCSD 490-226474/6

**Matrix:** Waste

**Analysis Batch:** 226474

**Client Sample ID:** Lab Control Sample Dup

**Prep Type:** Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.	RPD	RPD Limit
Chloride	50.0	49.06		mg/Kg		98	80 - 120	0	20

## Method: 6010B - Metals (ICP)

**Lab Sample ID:** MB 600-155275/1-A

**Matrix:** Waste

**Analysis Batch:** 155375

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 155275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.00328	U	0.0100	0.00328	mg/L		02/03/15 16:48	02/04/15 14:13	1
Barium	0.00220	U	0.0200	0.00220	mg/L		02/03/15 16:48	02/04/15 14:13	1
Cadmium	0.000350	U	0.00500	0.000350	mg/L		02/03/15 16:48	02/04/15 14:13	1
Chromium	0.00155	U	0.0100	0.00155	mg/L		02/03/15 16:48	02/04/15 14:13	1
Lead	0.00290	U	0.0100	0.00290	mg/L		02/03/15 16:48	02/04/15 14:13	1
Selenium	0.00417	U	0.0400	0.00417	mg/L		02/03/15 16:48	02/04/15 14:13	1
Silver	0.00125	U	0.0100	0.00125	mg/L		02/03/15 16:48	02/04/15 14:13	1

**Lab Sample ID:** MB 600-155275/1-A

**Matrix:** Waste

**Analysis Batch:** 155362

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 155275

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	0.000350	U	0.00500	0.000350	mg/L		02/03/15 16:48	02/04/15 17:24	1

**Lab Sample ID:** LCS 600-155275/2-A

**Matrix:** Waste

**Analysis Batch:** 155375

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 155275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Arsenic	1.00	1.017		mg/L		102	80 - 120
Barium	1.00	1.037		mg/L		104	80 - 120
Cadmium	0.500	0.4950		mg/L		99	80 - 120
Chromium	1.00	1.035		mg/L		104	80 - 120
Lead	1.00	1.027		mg/L		103	80 - 120
Selenium	1.00	1.004		mg/L		100	80 - 120
Silver	0.500	0.5425		mg/L		108	80 - 120
Sodium	10.0	11.04		mg/L		110	80 - 120

**Lab Sample ID:** LCS 600-155275/2-A

**Matrix:** Waste

**Analysis Batch:** 155362

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 155275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.
Cadmium	0.500	0.5243		mg/L		105	80 - 120
Sodium	10.0	10.24		mg/L		102	80 - 120

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 600-155342/1-A**

**Matrix: Waste**

**Analysis Batch: 155375**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 155342**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.00328	U	0.0100	0.00328	mg/L		02/04/15 11:47	02/04/15 16:19	1
Barium	0.00220	U	0.0200	0.00220	mg/L		02/04/15 11:47	02/04/15 16:19	1
Chromium	0.00155	U	0.0100	0.00155	mg/L		02/04/15 11:47	02/04/15 16:19	1
Lead	0.00290	U	0.0100	0.00290	mg/L		02/04/15 11:47	02/04/15 16:19	1
Selenium	0.00417	U	0.0400	0.00417	mg/L		02/04/15 11:47	02/04/15 16:19	1
Silver	0.00125	U	0.0100	0.00125	mg/L		02/04/15 11:47	02/04/15 16:19	1

**Lab Sample ID: MB 600-155342/1-A**

**Matrix: Waste**

**Analysis Batch: 155362**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 155342**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Cadmium	0.000350	U	0.00500	0.000350	mg/L		02/04/15 11:47	02/04/15 16:38	1

**Lab Sample ID: LCS 600-155342/2-A**

**Matrix: Waste**

**Analysis Batch: 155375**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155342**

Analyte	Spike		LCS	LCS	Unit	D	%Rec	Limits	
	Added	Result	Result	Qualifier					
Arsenic	1.00		0.9942		mg/L		99	80 - 120	
Barium	1.00		1.002		mg/L		100	80 - 120	
Chromium	1.00		1.021		mg/L		102	80 - 120	
Lead	1.00		0.9877		mg/L		99	80 - 120	
Selenium	1.00		0.9704		mg/L		97	80 - 120	
Silver	0.500		0.5407		mg/L		108	80 - 120	
Sodium	10.0		10.93		mg/L		109	80 - 120	

**Lab Sample ID: LCS 600-155342/2-A**

**Matrix: Waste**

**Analysis Batch: 155362**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155342**

Analyte	Spike		LCS	LCS	Unit	D	%Rec	Limits	
	Added	Result	Result	Qualifier					
Cadmium	0.500		0.5299		mg/L		106	80 - 120	

**Lab Sample ID: MB 490-225087/1-A**

**Matrix: Waste**

**Analysis Batch: 225167**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 225087**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.888	U	1.97	0.888	mg/Kg		02/03/15 15:28	02/03/15 19:40	1
Barium	1.58	U	1.97	1.58	mg/Kg		02/03/15 15:28	02/03/15 19:40	1
Cadmium	0.0986	U	0.986	0.0986	mg/Kg		02/03/15 15:28	02/03/15 19:40	1
Chromium	0.592	U	0.986	0.592	mg/Kg		02/03/15 15:28	02/03/15 19:40	1
Lead	0.493	U	0.986	0.493	mg/Kg		02/03/15 15:28	02/03/15 19:40	1
Selenium	0.986	U	1.97	0.986	mg/Kg		02/03/15 15:28	02/03/15 19:40	1
Silver	0.493	U	0.986	0.493	mg/Kg		02/03/15 15:28	02/03/15 19:40	1
Sulfur	19.7	U	49.3	19.7	mg/Kg		02/03/15 15:28	02/03/15 19:40	1

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC  
 Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: MB 490-225087/1-A**

**Matrix: Waste**

**Analysis Batch: 225437**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 225087**

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Sodium	98.6	U	197	98.6	mg/Kg		02/03/15 15:28	02/04/15 14:10	1

**Lab Sample ID: LCS 490-225087/2-A**

**Matrix: Waste**

**Analysis Batch: 225167**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 225087**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	
	Added	Result	Qualifier					
Arsenic	19.6	18.27		mg/Kg		93	80 - 120	
Barium	786	743.0		mg/Kg		95	80 - 120	
Cadmium	19.6	17.78		mg/Kg		91	80 - 120	
Chromium	78.6	74.36		mg/Kg		95	80 - 120	
Lead	19.6	18.41		mg/Kg		94	80 - 120	
Selenium	19.6	18.00		mg/Kg		92	80 - 120	
Silver	19.6	17.98		mg/Kg		92	80 - 120	
Sulfur	393	347.2		mg/Kg		88	80 - 120	

**Lab Sample ID: LCS 490-225087/2-A**

**Matrix: Waste**

**Analysis Batch: 225437**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 225087**

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits	
	Added	Result	Qualifier					
Sodium	1960	1972		mg/Kg		100	80 - 120	

**Lab Sample ID: LCSD 490-225087/3-A**

**Matrix: Waste**

**Analysis Batch: 225167**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 225087**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
Arsenic	19.6	18.27		mg/Kg		93	80 - 120	0	20
Barium	786	742.2		mg/Kg		94	80 - 120	0	20
Cadmium	19.6	17.58		mg/Kg		90	80 - 120	1	20
Chromium	78.6	73.42		mg/Kg		93	80 - 120	1	20
Lead	19.6	18.49		mg/Kg		94	80 - 120	0	20
Selenium	19.6	17.88		mg/Kg		91	80 - 120	1	20
Silver	19.6	17.74		mg/Kg		90	80 - 120	1	20
Sulfur	393	346.4		mg/Kg		88	80 - 120	0	20

**Lab Sample ID: LCSD 490-225087/3-A**

**Matrix: Waste**

**Analysis Batch: 225437**

**Client Sample ID: Lab Control Sample Dup**

**Prep Type: Total/NA**

**Prep Batch: 225087**

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
Sodium	1960	1974		mg/Kg		101	80 - 120	0	20

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC  
 Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LB 600-155165/1-B**

**Matrix: Waste**

**Analysis Batch: 155375**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 155275**

Analyte	LB	LB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic			0.0328	U	0.100	0.0328	mg/L		02/03/15 16:48	02/04/15 14:47	1
Barium			0.04163	J	0.200	0.0220	mg/L		02/03/15 16:48	02/04/15 14:47	1
Cadmium			0.00350	U	0.0500	0.00350	mg/L		02/03/15 16:48	02/04/15 14:47	1
Chromium			0.0155	U	0.100	0.0155	mg/L		02/03/15 16:48	02/04/15 14:47	1
Lead			0.0290	U	0.100	0.0290	mg/L		02/03/15 16:48	02/04/15 14:47	1
Selenium			0.0417	U	0.400	0.0417	mg/L		02/03/15 16:48	02/04/15 14:47	1
Silver			0.01615	J	0.100	0.0125	mg/L		02/03/15 16:48	02/04/15 14:47	1

**Lab Sample ID: LB 600-155166/1-B**

**Matrix: Waste**

**Analysis Batch: 155375**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 155275**

Analyte	LB	LB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic			0.0328	U	0.100	0.0328	mg/L		02/03/15 16:48	02/04/15 15:05	1
Barium			0.05685	J	0.200	0.0220	mg/L		02/03/15 16:48	02/04/15 15:05	1
Chromium			0.0155	U	0.100	0.0155	mg/L		02/03/15 16:48	02/04/15 15:05	1
Lead			0.0290	U	0.100	0.0290	mg/L		02/03/15 16:48	02/04/15 15:05	1
Selenium			0.0417	U	0.400	0.0417	mg/L		02/03/15 16:48	02/04/15 15:05	1
Silver			0.0125	U	0.100	0.0125	mg/L		02/03/15 16:48	02/04/15 15:05	1

**Lab Sample ID: LB 600-155166/1-B**

**Matrix: Waste**

**Analysis Batch: 155362**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 155275**

Analyte	LB	LB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium			0.00350	U	0.0500	0.00350	mg/L		02/03/15 16:48	02/04/15 17:29	1

**Lab Sample ID: 600-105998-3 MS**

**Matrix: Waste**

**Analysis Batch: 155375**

**Client Sample ID: SludgeComp-3-012915**

**Prep Type: TCLP**

**Prep Batch: 155275**

Analyte	Sample	Sample	Spike	MS	MS	%Rec.			
	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Arsenic	0.0328	U	10.0	10.27		mg/L		103	75 - 125
Barium	0.474	B	10.0	10.83		mg/L		104	75 - 125
Cadmium	0.00350	U	5.00	4.839		mg/L		97	75 - 125
Chromium	0.0181	J	10.0	10.40		mg/L		104	75 - 125
Lead	0.0290	U	10.0	10.18		mg/L		102	75 - 125
Selenium	0.0417	U	10.0	10.16		mg/L		102	75 - 125
Silver	0.0125	U	5.00	5.413		mg/L		108	75 - 125
Sodium	51.7	B	100	166.2		mg/L		114	75 - 125

**Lab Sample ID: LB 600-155282/1-C**

**Matrix: Waste**

**Analysis Batch: 155375**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 155342**

Analyte	LB	LB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic			0.0328	U	0.100	0.0328	mg/L		02/04/15 11:47	02/04/15 16:23	1
Barium			0.08587	J	0.200	0.0220	mg/L		02/04/15 11:47	02/04/15 16:23	1
Chromium			0.0155	U	0.100	0.0155	mg/L		02/04/15 11:47	02/04/15 16:23	1

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC  
 Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

## Method: 6010B - Metals (ICP) (Continued)

**Lab Sample ID: LB 600-155282/1-C**

**Matrix: Waste**

**Analysis Batch: 155375**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 155342**

Analyte	LB		LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Result	Qualifier							
Lead	0.0290	U			0.100	0.0290	mg/L		02/04/15 11:47	02/04/15 16:23	1
Selenium	0.0417	U			0.400	0.0417	mg/L		02/04/15 11:47	02/04/15 16:23	1
Silver	0.0125	U			0.100	0.0125	mg/L		02/04/15 11:47	02/04/15 16:23	1

**Lab Sample ID: LB 600-155282/1-C**

**Matrix: Waste**

**Analysis Batch: 155362**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 155342**

Analyte	LB		LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Result	Qualifier							
Cadmium	0.00350	U			0.0500	0.00350	mg/L		02/04/15 11:47	02/04/15 16:43	1

**Lab Sample ID: 600-105998-2 MS**

**Matrix: Waste**

**Analysis Batch: 155375**

**Client Sample ID: SludgeComp-5-012915**

**Prep Type: TCLP**

**Prep Batch: 155342**

Analyte	Sample		Sample		Spike Added	MS		Unit	D	%Rec	Limits
	Result	Qualifier	Result	Qualifier		Result	Qualifier				
Arsenic	0.0328	U			10.0	10.14		mg/L		101	75 - 125
Barium	0.676	B			10.0	10.72		mg/L		100	75 - 125
Chromium	0.0206	J			10.0	10.19		mg/L		102	75 - 125
Lead	0.142				10.0	9.960		mg/L		98	75 - 125
Selenium	0.0417	U			10.0	10.06		mg/L		101	75 - 125
Silver	0.0125	U			5.00	5.404		mg/L		108	75 - 125

**Lab Sample ID: 600-105998-2 MS**

**Matrix: Waste**

**Analysis Batch: 155362**

**Client Sample ID: SludgeComp-5-012915**

**Prep Type: TCLP**

**Prep Batch: 155342**

Analyte	Sample		Sample		Spike Added	MS		Unit	D	%Rec	Limits
	Result	Qualifier	Result	Qualifier		Result	Qualifier				
Cadmium	0.00350	U			5.00	5.363		mg/L		107	75 - 125

## Method: 7470A - Mercury (CVAA)

**Lab Sample ID: MB 600-155297/7-A**

**Matrix: Waste**

**Analysis Batch: 155346**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 155297**

Analyte	MB		MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier	Result	Qualifier							
Mercury	0.0000820	U			0.000200	0.0000820	mg/L		02/04/15 06:28	02/04/15 10:11	1

**Lab Sample ID: LCS 600-155297/8-A ^50**

**Matrix: Waste**

**Analysis Batch: 155346**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155297**

Analyte	Spike		LCS		Unit	D	%Rec	Limits
	Added	Result	Qualifier	Unit				
Mercury	0.153	0.1429		mg/L		93	70 - 130	

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC  
 Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

## Method: 7470A - Mercury (CVAA) (Continued)

**Lab Sample ID: MB 600-155328/7-A**

**Matrix: Waste**

**Analysis Batch: 155346**

**Client Sample ID: Method Blank**

**Prep Type: Total/NA**

**Prep Batch: 155328**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000820	U	0.000200	0.0000820	mg/L		02/04/15 10:31	02/04/15 12:36	1

**Lab Sample ID: LCS 600-155328/8-A ^50**

**Matrix: Waste**

**Analysis Batch: 155346**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 155328**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Mercury	0.153	0.1409		mg/L		92	70 - 130

**Lab Sample ID: LB 600-155165/1-D**

**Matrix: Waste**

**Analysis Batch: 155346**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 155297**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000820	U	0.000200	0.0000820	mg/L		02/04/15 06:28	02/04/15 10:27	1

**Lab Sample ID: LB 600-155166/1-D**

**Matrix: Waste**

**Analysis Batch: 155346**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 155297**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000820	U	0.000200	0.0000820	mg/L		02/04/15 06:28	02/04/15 10:44	1

**Lab Sample ID: 600-105998-3 MS**

**Matrix: Waste**

**Analysis Batch: 155346**

**Client Sample ID: SludgeComp-3-012915**

**Prep Type: TCLP**

**Prep Batch: 155297**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Mercury	0.000201		0.00300	0.003501		mg/L		110	75 - 125

**Lab Sample ID: LB 600-155282/1-B**

**Matrix: Waste**

**Analysis Batch: 155346**

**Client Sample ID: Method Blank**

**Prep Type: TCLP**

**Prep Batch: 155328**

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0000820	U	0.000200	0.0000820	mg/L		02/04/15 10:31	02/04/15 12:40	1

**Lab Sample ID: 600-105998-2 MS**

**Matrix: Waste**

**Analysis Batch: 155346**

**Client Sample ID: SludgeComp-5-012915**

**Prep Type: TCLP**

**Prep Batch: 155328**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec.	Limits
Mercury	0.00739		0.0300	0.03874		mg/L		105	75 - 125

**Lab Sample ID: 600-105998-2 DU**

**Matrix: Waste**

**Analysis Batch: 155346**

**Client Sample ID: SludgeComp-5-012915**

**Prep Type: TCLP**

**Prep Batch: 155328**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	Limit
Mercury	0.00739		0.007865		mg/L		6	20

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC  
 Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 600-155080/7-A

Matrix: Waste

Analysis Batch: 155110

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 155080

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.004562	J	0.0159	0.00336	mg/Kg	-	02/02/15 07:22	02/02/15 10:24	1

Lab Sample ID: LCSSRM 600-155080/8-A ^50

Matrix: Waste

Analysis Batch: 155110

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 155080

Analyte	Spike Added	LCSSRM Result	LCSSRM Qualifier	Unit	D	%Rec.	Limits
Mercury	5.76	5.835	-	mg/Kg	-	101.3	71.2 - 128. 6

## Method: 1010 - Ignitability, Pensky-Martens Closed-Cup Method

Lab Sample ID: MB 600-155260/1

Matrix: Waste

Analysis Batch: 155260

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>186	-	1.00	1.00	Degrees F	-	-	02/03/15 06:25	1

Lab Sample ID: LCS 600-155260/2

Matrix: Waste

Analysis Batch: 155260

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Flashpoint	81.0	80.00	-	Degrees F	-	99	96.9 - 103. 1 09

Lab Sample ID: MB 600-155380/1

Matrix: Waste

Analysis Batch: 155380

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Flashpoint	>186	-	1.00	1.00	Degrees F	-	-	02/04/15 10:15	1

Lab Sample ID: LCS 600-155380/2

Matrix: Waste

Analysis Batch: 155380

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Flashpoint	81.0	82.00	-	Degrees F	-	101	96.9 - 103. 1 09

Lab Sample ID: 600-105998-1 DU

Matrix: Waste

Analysis Batch: 155380

Client Sample ID: SludgeComp-2-012915

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU	DU	D	RPD
	Result	Qualifier	Result	Qualifier	Unit	RPD
Flashpoint	>186	-	>186	-	Degrees F	NC 20

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC  
 Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Method: 9012 - Cyanide, Reactive

**Lab Sample ID:** MB 600-155142/1-A

**Matrix:** Waste

**Analysis Batch:** 155264

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 155142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyanide, Reactive	0.0855	U	0.250	0.0855	mg/Kg		02/02/15 10:00	02/03/15 15:59	1

**Lab Sample ID:** LCS 600-155142/2-A

**Matrix:** Waste

**Analysis Batch:** 155264

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 155142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Cyanide, Reactive	1000	5.256		mg/Kg		0.5	0 - 200

## Method: 9023 - Organic Halides, Extractable (EOX)

**Lab Sample ID:** MB 240-166722/3-A

**Matrix:** Waste

**Analysis Batch:** 166953

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 166722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Halogens, Extractable Organic	34.0	U	200	34.0	mg/Kg		02/05/15 05:32	02/05/15 08:59	1

**Lab Sample ID:** LCS 240-166722/4-A

**Matrix:** Waste

**Analysis Batch:** 166953

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 166722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Halogens, Extractable Organic	1000	947.0		mg/Kg		95	75 - 125

## Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

**Lab Sample ID:** MB 600-155142/1-A

**Matrix:** Waste

**Analysis Batch:** 155238

**Client Sample ID:** Method Blank

**Prep Type:** Total/NA

**Prep Batch:** 155142

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide, Reactive	14.0	U	50.0	14.0	mg/Kg		02/02/15 10:00	02/03/15 13:29	1

**Lab Sample ID:** LCS 600-155142/3-A

**Matrix:** Waste

**Analysis Batch:** 155238

**Client Sample ID:** Lab Control Sample

**Prep Type:** Total/NA

**Prep Batch:** 155142

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Sulfide, Reactive	1000	1500		mg/Kg		150	0 - 200

TestAmerica Houston

# QC Sample Results

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-105998-1

Project/Site: CB&I Federal Services LLC . .– Houston

## Method: D240-87 - Heat of Combustion

Lab Sample ID: MB 600-155283/1

Client Sample ID: Method Blank

Matrix: Waste

Prep Type: Total/NA

Analysis Batch: 155283

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
BTU	500	U	500	500	BTU/lb			02/03/15 14:45	1

Lab Sample ID: LCS 600-155283/2

Client Sample ID: Lab Control Sample

Matrix: Waste

Prep Type: Total/NA

Analysis Batch: 155283

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
BTU	11400	10790		BTU/lb		95	90 - 110

## Method: SM 2540D - Solids, Total Suspended (TSS)

Lab Sample ID: MB 600-155064/1

Client Sample ID: Method Blank

Matrix: Waste

Prep Type: Total/NA

Analysis Batch: 155064

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Suspended Solids	2.00	U	2.00	2.00	mg/L			01/31/15 08:17	1

Lab Sample ID: LCS 600-155064/2

Client Sample ID: Lab Control Sample

Matrix: Waste

Prep Type: Total/NA

Analysis Batch: 155064

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
Total Suspended Solids	1200	1125		mg/L		94	90 - 110

# QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

## GC/MS VOA

### Prep Batch: 155103

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	5030B	
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	5030B	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	5030B	
LCS 600-155103/1-A	Lab Control Sample	Total/NA	Waste	5030B	
LCSD 600-155103/2-A	Lab Control Sample Dup	Total/NA	Waste	5030B	
MB 600-155103/3-A	Method Blank	Total/NA	Waste	5030B	

### Analysis Batch: 155108

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-155103/1-A	Lab Control Sample	Total/NA	Waste	8260B	155103
LCSD 600-155103/2-A	Lab Control Sample Dup	Total/NA	Waste	8260B	155103
MB 600-155103/3-A	Method Blank	Total/NA	Waste	8260B	155103

### Analysis Batch: 155329

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	8260B	155103
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	8260B	155103
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	8260B	155103

### Analysis Batch: 245559

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-3	SludgeComp-3-012915	TCLP	Waste	8260B	245651
LB 400-245651/1-A	Method Blank	TCLP	Waste	8260B	245651
LCS 400-245559/1002	Lab Control Sample	Total/NA	Waste	8260B	
MB 400-245559/4	Method Blank	Total/NA	Waste	8260B	

### Leach Batch: 245651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	TCLP	Waste	1311	
600-105998-2	SludgeComp-5-012915	TCLP	Waste	1311	
600-105998-3	SludgeComp-3-012915	TCLP	Waste	1311	
LB 400-245651/1-A	Method Blank	TCLP	Waste	1311	

### Analysis Batch: 245713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	TCLP	Waste	8260B	245651
600-105998-2	SludgeComp-5-012915	TCLP	Waste	8260B	245651
600-105998-3	SludgeComp-3-012915	TCLP	Waste	8260B	245651
LB 400-245651/1-A	Method Blank	TCLP	Waste	8260B	245651
LCS 400-245713/1002	Lab Control Sample	Total/NA	Waste	8260B	
MB 400-245713/4	Method Blank	Total/NA	Waste	8260B	

## GC/MS Semi VOA

### Leach Batch: 155165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-3	SludgeComp-3-012915	TCLP	Waste	1311	
600-105998-3 MS	SludgeComp-3-012915	TCLP	Waste	1311	
LB 600-155165/1-C	Method Blank	TCLP	Waste	1311	

# QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

## GC/MS Semi VOA (Continued)

### Leach Batch: 155166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	TCLP	Waste	1311	
LB 600-155166/1-C	Method Blank	TCLP	Waste	1311	

### Prep Batch: 155212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	3580A	
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	3580A	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	3580A	
LCS 600-155212/2-A	Lab Control Sample	Total/NA	Waste	3580A	
MB 600-155212/1-A	Method Blank	Total/NA	Waste	3580A	

### Analysis Batch: 155239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	8270C	155212
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	8270C	155212
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	8270C	155212
LCS 600-155212/2-A	Lab Control Sample	Total/NA	Waste	8270C	155212
MB 600-155212/1-A	Method Blank	Total/NA	Waste	8270C	155212

### Prep Batch: 155258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	TCLP	Waste	3510C	155166
600-105998-3	SludgeComp-3-012915	TCLP	Waste	3510C	155165
600-105998-3 MS	SludgeComp-3-012915	TCLP	Waste	3510C	155165
LB 600-155165/1-C	Method Blank	TCLP	Waste	3510C	155165
LB 600-155166/1-C	Method Blank	TCLP	Waste	3510C	155166
LCS 600-155258/2-A	Lab Control Sample	Total/NA	Waste	3510C	
MB 600-155258/1-A	Method Blank	Total/NA	Waste	3510C	

### Leach Batch: 155282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	TCLP	Waste	1311	
600-105998-2 MS	SludgeComp-5-012915	TCLP	Waste	1311	
LB 600-155282/1-D	Method Blank	TCLP	Waste	1311	

### Analysis Batch: 155291

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	TCLP	Waste	8270C	155258
600-105998-3	SludgeComp-3-012915	TCLP	Waste	8270C	155258
600-105998-3 MS	SludgeComp-3-012915	TCLP	Waste	8270C	155258
LB 600-155165/1-C	Method Blank	TCLP	Waste	8270C	155258
LB 600-155166/1-C	Method Blank	TCLP	Waste	8270C	155258
LCS 600-155258/2-A	Lab Control Sample	Total/NA	Waste	8270C	155258
MB 600-155258/1-A	Method Blank	Total/NA	Waste	8270C	155258

### Prep Batch: 155349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	TCLP	Waste	3510C	155282
600-105998-2 MS	SludgeComp-5-012915	TCLP	Waste	3510C	155282
LB 600-155282/1-D	Method Blank	TCLP	Waste	3510C	155282
LCS 600-155349/2-A	Lab Control Sample	Total/NA	Waste	3510C	

TestAmerica Houston

# QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

## GC/MS Semi VOA (Continued)

### Prep Batch: 155349 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 600-155349/1-A	Method Blank	Total/NA	Waste	3510C	

### Analysis Batch: 155398

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	TCLP	Waste	8270C	155349
600-105998-2 MS	SludgeComp-5-012915	TCLP	Waste	8270C	155349
LB 600-155282/1-D	Method Blank	TCLP	Waste	8270C	155349
LCS 600-155349/2-A	Lab Control Sample	Total/NA	Waste	8270C	155349
MB 600-155349/1-A	Method Blank	Total/NA	Waste	8270C	155349

## GC Semi VOA

### Prep Batch: 155146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1 - DL	SludgeComp-2-012915	Total/NA	Waste	TX_1005_S_Pre p	
600-105998-2 - DL	SludgeComp-5-012915	Total/NA	Waste	TX_1005_S_Pre p	
600-105998-3 - DL	SludgeComp-3-012915	Total/NA	Waste	TX_1005_S_Pre p	
LCS 600-155146/2-A	Lab Control Sample	Total/NA	Waste	TX_1005_S_Pre p	
MB 600-155146/1-A	Method Blank	Total/NA	Waste	TX_1005_S_Pre p	

### Analysis Batch: 155150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 600-155146/2-A	Lab Control Sample	Total/NA	Waste	TX 1005	155146
MB 600-155146/1-A	Method Blank	Total/NA	Waste	TX 1005	155146

### Analysis Batch: 155152

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1 - DL	SludgeComp-2-012915	Total/NA	Waste	TX 1005	155146
600-105998-2 - DL	SludgeComp-5-012915	Total/NA	Waste	TX 1005	155146
600-105998-3 - DL	SludgeComp-3-012915	Total/NA	Waste	TX 1005	155146

### Analysis Batch: 155204

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	8081A	155217
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	8081A	155217
LCS 600-155217/2-A	Lab Control Sample	Total/NA	Waste	8081A	155217
MB 600-155217/1-A	Method Blank	Total/NA	Waste	8081A	155217

### Prep Batch: 155217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	3580A	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	3580A	
LCS 600-155217/2-A	Lab Control Sample	Total/NA	Waste	3580A	
MB 600-155217/1-A	Method Blank	Total/NA	Waste	3580A	

TestAmerica Houston

# QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## GC Semi VOA (Continued)

### Prep Batch: 155226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	8151A	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	8151A	
LCS 600-155226/2-A	Lab Control Sample	Total/NA	Waste	8151A	
MB 600-155226/1-A	Method Blank	Total/NA	Waste	8151A	

### Analysis Batch: 155311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	8151A	155226
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	8151A	155226
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	8151A	155226
LCS 600-155226/2-A	Lab Control Sample	Total/NA	Waste	8151A	155226
MB 600-155226/1-A	Method Blank	Total/NA	Waste	8151A	155226

## HPLC/IC

### Prep Batch: 226400

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	5050	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	5050	
600-105998-3 DU	SludgeComp-3-012915	Total/NA	Waste	5050	
MB 490-226400/1-A	Method Blank	Total/NA	Waste	5050	

### Analysis Batch: 226474

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	9056A	226400
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	9056A	226400
600-105998-3 DU	SludgeComp-3-012915	Total/NA	Waste	9056A	226400
LCS 490-226474/5	Lab Control Sample	Total/NA	Waste	9056A	
LCSD 490-226474/6	Lab Control Sample Dup	Total/NA	Waste	9056A	
MB 490-226400/1-A	Method Blank	Total/NA	Waste	9056A	226400

## Metals

### Prep Batch: 155080

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	7471A	
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	7471A	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	7471A	
LCSSRM 600-155080/8-A ^50	Lab Control Sample	Total/NA	Waste	7471A	
MB 600-155080/7-A	Method Blank	Total/NA	Waste	7471A	

### Analysis Batch: 155110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	7471A	155080
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	7471A	155080
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	7471A	155080
LCSSRM 600-155080/8-A ^50	Lab Control Sample	Total/NA	Waste	7471A	155080
MB 600-155080/7-A	Method Blank	Total/NA	Waste	7471A	155080

TestAmerica Houston

# QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Metals (Continued)

### Leach Batch: 155165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-3	SludgeComp-3-012915	TCLP	Waste	1311	
600-105998-3 MS	SludgeComp-3-012915	TCLP	Waste	1311	
LB 600-155165/1-B	Method Blank	TCLP	Waste	1311	
LB 600-155165/1-D	Method Blank	TCLP	Waste	1311	

### Leach Batch: 155166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	TCLP	Waste	1311	
LB 600-155166/1-B	Method Blank	TCLP	Waste	1311	
LB 600-155166/1-D	Method Blank	TCLP	Waste	1311	

### Prep Batch: 155275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	TCLP	Waste	3010A	155166
600-105998-3	SludgeComp-3-012915	TCLP	Waste	3010A	155165
600-105998-3 MS	SludgeComp-3-012915	TCLP	Waste	3010A	155165
LB 600-155165/1-B	Method Blank	TCLP	Waste	3010A	155165
LB 600-155166/1-B	Method Blank	TCLP	Waste	3010A	155166
LCS 600-155275/2-A	Lab Control Sample	Total/NA	Waste	3010A	
MB 600-155275/1-A	Method Blank	Total/NA	Waste	3010A	

### Leach Batch: 155282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	TCLP	Waste	1311	
600-105998-2 DU	SludgeComp-5-012915	TCLP	Waste	1311	
600-105998-2 MS	SludgeComp-5-012915	TCLP	Waste	1311	
LB 600-155282/1-B	Method Blank	TCLP	Waste	1311	
LB 600-155282/1-C	Method Blank	TCLP	Waste	1311	

### Prep Batch: 155297

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	TCLP	Waste	7470A	155166
600-105998-3	SludgeComp-3-012915	TCLP	Waste	7470A	155165
600-105998-3 MS	SludgeComp-3-012915	TCLP	Waste	7470A	155165
LB 600-155165/1-D	Method Blank	TCLP	Waste	7470A	155165
LB 600-155166/1-D	Method Blank	TCLP	Waste	7470A	155166
LCS 600-155297/8-A ^50	Lab Control Sample	Total/NA	Waste	7470A	
MB 600-155297/7-A	Method Blank	Total/NA	Waste	7470A	

### Prep Batch: 155328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	TCLP	Waste	7470A	155282
600-105998-2 DU	SludgeComp-5-012915	TCLP	Waste	7470A	155282
600-105998-2 MS	SludgeComp-5-012915	TCLP	Waste	7470A	155282
LB 600-155282/1-B	Method Blank	TCLP	Waste	7470A	155282
LCS 600-155328/8-A ^50	Lab Control Sample	Total/NA	Waste	7470A	
MB 600-155328/7-A	Method Blank	Total/NA	Waste	7470A	

### Prep Batch: 155342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	TCLP	Waste	3010A	155282

TestAmerica Houston

# QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Metals (Continued)

### Prep Batch: 155342 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2 MS	SludgeComp-5-012915	TCLP	Waste	3010A	155282
LB 600-155282/1-C	Method Blank	TCLP	Waste	3010A	155282
LCS 600-155342/2-A	Lab Control Sample	Total/NA	Waste	3010A	
MB 600-155342/1-A	Method Blank	Total/NA	Waste	3010A	

### Analysis Batch: 155346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	TCLP	Waste	7470A	155297
600-105998-2	SludgeComp-5-012915	TCLP	Waste	7470A	155328
600-105998-2 DU	SludgeComp-5-012915	TCLP	Waste	7470A	155328
600-105998-2 MS	SludgeComp-5-012915	TCLP	Waste	7470A	155328
600-105998-3	SludgeComp-3-012915	TCLP	Waste	7470A	155297
600-105998-3 MS	SludgeComp-3-012915	TCLP	Waste	7470A	155297
LB 600-155165/1-D	Method Blank	TCLP	Waste	7470A	155297
LB 600-155166/1-D	Method Blank	TCLP	Waste	7470A	155297
LB 600-155282/1-B	Method Blank	TCLP	Waste	7470A	155328
LCS 600-155297/8-A ^50	Lab Control Sample	Total/NA	Waste	7470A	155297
LCS 600-155328/8-A ^50	Lab Control Sample	Total/NA	Waste	7470A	155328
MB 600-155297/7-A	Method Blank	Total/NA	Waste	7470A	155297
MB 600-155328/7-A	Method Blank	Total/NA	Waste	7470A	155328

### Analysis Batch: 155362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	TCLP	Waste	6010B	155275
600-105998-2	SludgeComp-5-012915	TCLP	Waste	6010B	155342
600-105998-2 MS	SludgeComp-5-012915	TCLP	Waste	6010B	155342
LB 600-155166/1-B	Method Blank	TCLP	Waste	6010B	155275
LB 600-155282/1-C	Method Blank	TCLP	Waste	6010B	155342
LCS 600-155275/2-A	Lab Control Sample	Total/NA	Waste	6010B	155275
LCS 600-155342/2-A	Lab Control Sample	Total/NA	Waste	6010B	155342
MB 600-155275/1-A	Method Blank	Total/NA	Waste	6010B	155275
MB 600-155342/1-A	Method Blank	Total/NA	Waste	6010B	155342

### Analysis Batch: 155375

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	TCLP	Waste	6010B	155275
600-105998-2	SludgeComp-5-012915	TCLP	Waste	6010B	155342
600-105998-2 MS	SludgeComp-5-012915	TCLP	Waste	6010B	155342
600-105998-3	SludgeComp-3-012915	TCLP	Waste	6010B	155275
600-105998-3 MS	SludgeComp-3-012915	TCLP	Waste	6010B	155275
LB 600-155165/1-B	Method Blank	TCLP	Waste	6010B	155275
LB 600-155166/1-B	Method Blank	TCLP	Waste	6010B	155275
LB 600-155282/1-C	Method Blank	TCLP	Waste	6010B	155342
LCS 600-155275/2-A	Lab Control Sample	Total/NA	Waste	6010B	155275
LCS 600-155342/2-A	Lab Control Sample	Total/NA	Waste	6010B	155342
MB 600-155275/1-A	Method Blank	Total/NA	Waste	6010B	155275
MB 600-155342/1-A	Method Blank	Total/NA	Waste	6010B	155342

### Prep Batch: 225087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	3051A	

TestAmerica Houston

# QC Association Summary

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

## Metals (Continued)

### Prep Batch: 225087 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	3051A	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	3051A	
LCS 490-225087/2-A	Lab Control Sample	Total/NA	Waste	3051A	
LCSD 490-225087/3-A	Lab Control Sample Dup	Total/NA	Waste	3051A	
MB 490-225087/1-A	Method Blank	Total/NA	Waste	3051A	

### Analysis Batch: 225167

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	6010B	
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	6010B	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	6010B	
LCS 490-225087/2-A	Lab Control Sample	Total/NA	Waste	6010B	
LCSD 490-225087/3-A	Lab Control Sample Dup	Total/NA	Waste	6010B	
MB 490-225087/1-A	Method Blank	Total/NA	Waste	6010B	

### Analysis Batch: 225437

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	6010B	
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	6010B	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	6010B	
LCS 490-225087/2-A	Lab Control Sample	Total/NA	Waste	6010B	
LCSD 490-225087/3-A	Lab Control Sample Dup	Total/NA	Waste	6010B	
MB 490-225087/1-A	Method Blank	Total/NA	Waste	6010B	

## General Chemistry

### Analysis Batch: 112492

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	D1796	
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	D1796	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	D1796	

### Analysis Batch: 155064

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	SM 2540D	
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	SM 2540D	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	SM 2540D	
LCS 600-155064/2	Lab Control Sample	Total/NA	Waste	SM 2540D	
MB 600-155064/1	Method Blank	Total/NA	Waste	SM 2540D	

### Prep Batch: 155142

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	7.3.4	
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	7.3.4	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	7.3.4	
LCS 600-155142/2-A	Lab Control Sample	Total/NA	Waste	7.3.4	
LCS 600-155142/3-A	Lab Control Sample	Total/NA	Waste	7.3.4	
MB 600-155142/1-A	Method Blank	Total/NA	Waste	7.3.4	

# QC Association Summary

Client: CB&I Federal Services LLC  
Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

## General Chemistry (Continued)

### Analysis Batch: 155238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	9034	155142
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	9034	155142
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	9034	155142
LCS 600-155142/3-A	Lab Control Sample	Total/NA	Waste	9034	155142
MB 600-155142/1-A	Method Blank	Total/NA	Waste	9034	155142

### Analysis Batch: 155260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	1010	8
LCS 600-155260/2	Lab Control Sample	Total/NA	Waste	1010	9
MB 600-155260/1	Method Blank	Total/NA	Waste	1010	10

### Analysis Batch: 155264

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	9012	11
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	9012	12
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	9012	12
LCS 600-155142/2-A	Lab Control Sample	Total/NA	Waste	9012	13
MB 600-155142/1-A	Method Blank	Total/NA	Waste	9012	13

### Analysis Batch: 155283

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	D240-87	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	D240-87	
LCS 600-155283/2	Lab Control Sample	Total/NA	Waste	D240-87	
MB 600-155283/1	Method Blank	Total/NA	Waste	D240-87	

### Analysis Batch: 155380

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	1010	
600-105998-1 DU	SludgeComp-2-012915	Total/NA	Waste	1010	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	1010	
LCS 600-155380/2	Lab Control Sample	Total/NA	Waste	1010	
MB 600-155380/1	Method Blank	Total/NA	Waste	1010	

### Prep Batch: 166722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	9023	
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	9023	
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	9023	
LCS 240-166722/4-A	Lab Control Sample	Total/NA	Waste	9023	
MB 240-166722/3-A	Method Blank	Total/NA	Waste	9023	

### Analysis Batch: 166953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
600-105998-1	SludgeComp-2-012915	Total/NA	Waste	9023	166722
600-105998-2	SludgeComp-5-012915	Total/NA	Waste	9023	166722
600-105998-3	SludgeComp-3-012915	Total/NA	Waste	9023	166722
LCS 240-166722/4-A	Lab Control Sample	Total/NA	Waste	9023	166722
MB 240-166722/3-A	Method Blank	Total/NA	Waste	9023	166722

TestAmerica Houston

## Lab Chronicle

Client: CB&I Federal Services LLC  
 Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-2-012915**

**Lab Sample ID: 600-105998-1**

**Matrix: Waste**

Date Collected: 01/29/15 12:34

Date Received: 01/29/15 17:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	245651	02/02/15 17:00	WPD	TAL PEN
TCLP	Analysis	8260B		200	5 mL	5 mL	245713	02/06/15 12:19	WPD	TAL PEN
Total/NA	Prep	5030B			1 g	10 mL	155103	02/02/15 10:00	KLV	TAL HOU
Total/NA	Analysis	8260B		20	1 g	10 mL	155329	02/04/15 20:44	KLV	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	155166	02/02/15 21:42	RT1	TAL HOU
TCLP	Prep	3510C			200 mL	3.0 mL	155258	02/03/15 17:06	SMB	TAL HOU
TCLP	Analysis	8270C		10	200 mL	3.0 mL	155291	02/04/15 20:33	KP1	TAL HOU
Total/NA	Prep	3580A			1.03 g	10.00 mL	155212	02/03/15 10:48	RLK	TAL HOU
Total/NA	Analysis	8270C		10	1.03 g	10.00 mL	155239	02/03/15 21:24	KP1	TAL HOU
Total/NA	Prep	TX_1005_S_Prep	DL		01.00 g	10.00 mL	155146	02/02/15 15:15	NVP	TAL HOU
Total/NA	Analysis	TX 1005	DL	5	01.00 g	10.00 mL	155152	02/03/15 07:57	RJV	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	155166	02/02/15 21:42	RT1	TAL HOU
TCLP	Prep	3010A			5 mL	50 mL	155275	02/03/15 16:48	NER	TAL HOU
TCLP	Analysis	6010B		1	5 mL	50 mL	155375	02/04/15 15:57	DCL	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	155166	02/02/15 21:42	RT1	TAL HOU
TCLP	Prep	3010A			5 mL	50 mL	155275	02/03/15 16:48	NER	TAL HOU
TCLP	Analysis	6010B		1	5 mL	50 mL	155362	02/04/15 17:59	DCL	TAL HOU
Total/NA	Prep	3051A			0.515 g	100 mL	225087	02/03/15 15:28	NJB	TAL NSH
Total/NA	Analysis	6010B		100	0.515 g	100 mL	225167	02/03/15 20:24	LEG	TAL NSH
Total/NA	Prep	3051A			0.515 g	100 mL	225087	02/03/15 15:28	NJB	TAL NSH
Total/NA	Analysis	6010B		10	0.515 g	100 mL	225437	02/04/15 14:54	LEG	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	155166	02/02/15 21:42	RT1	TAL HOU
TCLP	Prep	7470A			4 mL	4 mL	155297	02/04/15 06:28	SCG	TAL HOU
TCLP	Analysis	7470A		1	4 mL	4 mL	155346	02/04/15 11:09	SCG	TAL HOU
Total/NA	Prep	7471A			0.61 g	50 mL	155080	02/02/15 07:22	SCG	TAL HOU
Total/NA	Analysis	7471A		1	0.61 g	50 mL	155110	02/02/15 10:43	SCG	TAL HOU
Total/NA	Analysis	1010					155380	02/04/15 10:15	DAW	TAL HOU
Total/NA	Prep	7.3.4			9.80 g	250 mL	155142	02/02/15 10:00	MJB	TAL HOU
Total/NA	Analysis	9012		1	9.80 g	250 mL	155264	02/03/15 15:59	EAS	TAL HOU
Total/NA	Prep	9023			1.98 g	10 mL	166722	02/05/15 05:38	TPH	TAL CAN
Total/NA	Analysis	9023		1	1.98 g	10 mL	166953	02/05/15 10:22	TPH	TAL CAN
Total/NA	Prep	7.3.4			9.80 g	250 mL	155142	02/02/15 10:00	MJB	TAL HOU
Total/NA	Analysis	9034		1	9.80 g	250 mL	155238	02/03/15 13:29	EAS	TAL HOU
Total/NA	Analysis	D1796		1	50 mL	50 mL	112492	02/05/15 16:00	EDR	TAL CC
Total/NA	Analysis	SM 2540D		1	1 mL	500 mL	155064	01/31/15 08:18	EC1	TAL HOU

**Client Sample ID: SludgeComp-5-012915**

**Lab Sample ID: 600-105998-2**

**Matrix: Waste**

Date Collected: 01/29/15 13:20

Date Received: 01/29/15 17:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	245651	02/02/15 17:00	WPD	TAL PEN
TCLP	Analysis	8260B		50	5 mL	5 mL	245713	02/06/15 11:55	WPD	TAL PEN

TestAmerica Houston

# Lab Chronicle

Client: CB&I Federal Services LLC  
 Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-5-012915**

**Lab Sample ID: 600-105998-2**

**Matrix: Waste**

**Date Collected: 01/29/15 13:20**

**Date Received: 01/29/15 17:19**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030B			1 g	10 mL	155103	02/02/15 10:00	KLV	TAL HOU
Total/NA	Analysis	8260B		20	1 g	10 mL	155329	02/04/15 21:12	KLV	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	155282	02/03/15 17:51	RT1	TAL HOU
TCLP	Prep	3510C			200 mL	2.0 mL	155349	02/04/15 12:21	SMB	TAL HOU
TCLP	Analysis	8270C		10	200 mL	2.0 mL	155398	02/05/15 10:52	KP1	TAL HOU
Total/NA	Prep	3580A			1.06 g	10.00 mL	155212	02/03/15 10:48	RLK	TAL HOU
Total/NA	Analysis	8270C		10	1.06 g	10.00 mL	155239	02/03/15 21:55	KP1	TAL HOU
Total/NA	Prep	3580A			1.09 g	10.0 mL	155217	02/03/15 11:11	RLK	TAL HOU
Total/NA	Analysis	8081A		10	1.09 g	10.0 mL	155204	02/03/15 12:53	JAL	TAL HOU
Total/NA	Prep	8151A			1.06 g	5.0 mL	155226	02/03/15 12:09	RLK	TAL HOU
Total/NA	Analysis	8151A		10	1.06 g	5.0 mL	155311	02/04/15 14:17	JAL	TAL HOU
Total/NA	Prep	TX_1005_S_Prep	DL		01.00 g	10.00 mL	155146	02/02/15 15:15	NVP	TAL HOU
Total/NA	Analysis	TX 1005	DL	50	01.00 g	10.00 mL	155152	02/03/15 01:35	RJV	TAL HOU
Total/NA	Prep	5050			0.52 g	50 mL	226400	02/09/15 13:54	REM	TAL NSH
Total/NA	Analysis	9056A		10	0.52 g	50 mL	226474	02/09/15 16:54	JHS	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	155282	02/03/15 17:51	RT1	TAL HOU
TCLP	Prep	3010A			5 mL	50 mL	155342	02/04/15 11:47	NER	TAL HOU
TCLP	Analysis	6010B		1	5 mL	50 mL	155375	02/04/15 16:25	DCL	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	155282	02/03/15 17:51	RT1	TAL HOU
TCLP	Prep	3010A			5 mL	50 mL	155342	02/04/15 11:47	NER	TAL HOU
TCLP	Analysis	6010B		1	5 mL	50 mL	155362	02/04/15 16:45	DCL	TAL HOU
Total/NA	Prep	3051A			0.497 g	100 mL	225087	02/03/15 15:28	NJB	TAL NSH
Total/NA	Analysis	6010B		5	0.497 g	100 mL	225167	02/03/15 20:28	LEG	TAL NSH
Total/NA	Prep	3051A			0.497 g	100 mL	225087	02/03/15 15:28	NJB	TAL NSH
Total/NA	Analysis	6010B		1	0.497 g	100 mL	225437	02/04/15 14:58	LEG	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	155282	02/03/15 17:51	RT1	TAL HOU
TCLP	Prep	7470A			4 mL	40 mL	155328	02/04/15 10:31	SCG	TAL HOU
TCLP	Analysis	7470A		1	4 mL	40 mL	155346	02/04/15 12:41	SCG	TAL HOU
Total/NA	Prep	7471A			0.65 g	50 mL	155080	02/02/15 07:22	SCG	TAL HOU
Total/NA	Analysis	7471A		100	0.65 g	50 mL	155110	02/02/15 11:00	SCG	TAL HOU
Total/NA	Analysis	1010		1			155260	02/03/15 06:25	MJB	TAL HOU
Total/NA	Prep	7.3.4			10.15 g	250 mL	155142	02/02/15 10:00	MJB	TAL HOU
Total/NA	Analysis	9012		1	10.15 g	250 mL	155264	02/03/15 15:59	EAS	TAL HOU
Total/NA	Prep	9023			2.00 g	10 mL	166722	02/05/15 05:39	TPH	TAL CAN
Total/NA	Analysis	9023		1	2.00 g	10 mL	166953	02/05/15 10:35	TPH	TAL CAN
Total/NA	Prep	7.3.4			10.15 g	250 mL	155142	02/02/15 10:00	MJB	TAL HOU
Total/NA	Analysis	9034		1	10.15 g	250 mL	155238	02/03/15 13:29	EAS	TAL HOU
Total/NA	Analysis	D1796		1	50 mL	50 mL	112492	02/05/15 16:00	EDR	TAL CC
Total/NA	Analysis	D240-87		1			155283	02/03/15 14:45	KRD	TAL HOU
Total/NA	Analysis	SM 2540D		1	1 mL	500 mL	155064	01/31/15 08:18	EC1	TAL HOU

TestAmerica Houston

# Lab Chronicle

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . . - Houston

TestAmerica Job ID: 600-105998-1

**Client Sample ID: SludgeComp-3-012915**

**Lab Sample ID: 600-105998-3**

Date Collected: 01/29/15 14:19

Matrix: Waste

Date Received: 01/29/15 17:19

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			1.0 g	1.0 mL	245651	02/02/15 17:00	WPD	TAL PEN
TCLP	Analysis	8260B		5	5 mL	5 mL	245559	02/05/15 19:43	WPD	TAL PEN
Total/NA	Prep	5030B			1 g	10 mL	155103	02/02/15 10:00	KLV	TAL HOU
Total/NA	Analysis	8260B		20	1 g	10 mL	155329	02/04/15 21:39	KLV	TAL HOU
TCLP	Leach	1311			1.0 g	1.0 mL	155165	02/02/15 21:40	RT1	TAL HOU
TCLP	Prep	3510C			200 mL	1.0 mL	155258	02/03/15 17:06	SMB	TAL HOU
TCLP	Analysis	8270C		5	200 mL	1.0 mL	155291	02/04/15 23:09	KP1	TAL HOU
Total/NA	Prep	3580A			1.07 g	10.00 mL	155212	02/03/15 10:48	RLK	TAL HOU
Total/NA	Analysis	8270C		10	1.07 g	10.00 mL	155239	02/03/15 22:25	KP1	TAL HOU
Total/NA	Prep	3580A			1.08 g	10.0 mL	155217	02/03/15 11:11	RLK	TAL HOU
Total/NA	Analysis	8081A		5	1.08 g	10.0 mL	155204	02/03/15 12:02	JAL	TAL HOU
Total/NA	Prep	8151A			1.07 g	5.0 mL	155226	02/03/15 12:09	RLK	TAL HOU
Total/NA	Analysis	8151A		10	1.07 g	5.0 mL	155311	02/04/15 14:41	JAL	TAL HOU
Total/NA	Prep	8151A			1.07 g	5.0 mL	155226	02/03/15 12:09	RLK	TAL HOU
Total/NA	Analysis	8151A		20	1.07 g	5.0 mL	155311	02/04/15 15:30	JAL	TAL HOU
Total/NA	Prep	TX_1005_S_Prep	DL		01.00 g	10.00 mL	155146	02/02/15 15:15	NVP	TAL HOU
Total/NA	Analysis	TX 1005	DL	50	01.00 g	10.00 mL	155152	02/03/15 02:07	RJV	TAL HOU
Total/NA	Prep	5050			0.55 g	50 mL	226400	02/09/15 13:54	REM	TAL NSH
Total/NA	Analysis	9056A		10	0.55 g	50 mL	226474	02/09/15 17:14	JHS	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	155165	02/02/15 21:40	RT1	TAL HOU
TCLP	Prep	3010A			5 mL	50 mL	155275	02/03/15 16:48	NER	TAL HOU
TCLP	Analysis	6010B		1	5 mL	50 mL	155375	02/04/15 14:56	DCL	TAL HOU
Total/NA	Prep	3051A			0.501 g	100 mL	225087	02/03/15 15:28	NJB	TAL NSH
Total/NA	Analysis	6010B		5	0.501 g	100 mL	225167	02/03/15 20:33	LEG	TAL NSH
Total/NA	Prep	3051A			0.501 g	100 mL	225087	02/03/15 15:28	NJB	TAL NSH
Total/NA	Analysis	6010B		1	0.501 g	100 mL	225437	02/04/15 15:02	LEG	TAL NSH
TCLP	Leach	1311			1.0 g	1.0 mL	155165	02/02/15 21:40	RT1	TAL HOU
TCLP	Prep	7470A			40 mL	40 mL	155297	02/04/15 06:28	SCG	TAL HOU
TCLP	Analysis	7470A		1	40 mL	40 mL	155346	02/04/15 10:39	SCG	TAL HOU
Total/NA	Prep	7471A			0.66 g	50 mL	155080	02/02/15 07:22	SCG	TAL HOU
Total/NA	Analysis	7471A		10	0.66 g	50 mL	155110	02/02/15 10:58	SCG	TAL HOU
Total/NA	Analysis	1010		1			155380	02/04/15 10:15	DAW	TAL HOU
Total/NA	Prep	7.3.4			10.13 g	250 mL	155142	02/02/15 10:00	MJB	TAL HOU
Total/NA	Analysis	9012		1	10.13 g	250 mL	155264	02/03/15 15:59	EAS	TAL HOU
Total/NA	Prep	9023			2.01 g	10 mL	166722	02/05/15 05:40	TPH	TAL CAN
Total/NA	Analysis	9023		1	2.01 g	10 mL	166953	02/05/15 10:49	TPH	TAL CAN
Total/NA	Prep	7.3.4			10.13 g	250 mL	155142	02/02/15 10:00	MJB	TAL HOU
Total/NA	Analysis	9034		1	10.13 g	250 mL	155238	02/03/15 13:29	EAS	TAL HOU
Total/NA	Analysis	D1796		1	50 mL	50 mL	112492	02/05/15 16:00	EDR	TAL CC
Total/NA	Analysis	D240-87		1			155283	02/03/15 14:45	KRD	TAL HOU
Total/NA	Analysis	SM 2540D		1	0.5 mL	500 mL	155064	01/31/15 08:18	EC1	TAL HOU

TestAmerica Houston

## Lab Chronicle

Client: CB&I Federal Services LLC

Project/Site: CB&I Federal Services LLC . .– Houston

TestAmerica Job ID: 600-105998-1

### Laboratory References:

TAL CAN = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

TAL CC = TestAmerica Corpus Christi, 1733 N. Padre Island Drive, Corpus Christi, TX 78408, TEL (361)289-2673

TAL HOU = TestAmerica Houston, 6310 Rothway Street, Houston, TX 77040, TEL (713)690-4444

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

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## Certification Summary

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-105998-1

Project/Site: CB&I Federal Services LLC . . - Houston

### Laboratory: TestAmerica Houston

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704223	10-31-15
The following analytes are included in this report, but are not certified under this certification:				
Analysis Method	Prep Method	Matrix	Analyte	
8081A	3580A	Waste	Chlordane (n.o.s.)	
The following analytes are included in this report, but certification is not offered by the governing authority:				
Analysis Method	Prep Method	Matrix	Analyte	
8260B	5030B	Waste	1,2-Dichloroethene, Total	
9012	7.3.4	Waste	Cyanide, Reactive	
9034	7.3.4	Waste	Sulfide, Reactive	
D240-87		Waste	BTU	
SM 2540D		Waste	Total Suspended Solids	
TX 1005	TX_1005_S_Prep	Waste	>C12-C28	
TX 1005	TX_1005_S_Prep	Waste	>C28-C35	
TX 1005	TX_1005_S_Prep	Waste	C6-C12	

### Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAP	9	01144CA	06-30-14 *
California	State Program	9	2927	04-30-15 *
Connecticut	State Program	1	PH-0590	12-31-15
Florida	NELAP	4	E87225	06-30-15
Georgia	State Program	4	N/A	06-30-15
Illinois	NELAP	5	200004	07-31-15
Kansas	NELAP	7	E-10336	03-31-15 *
Kentucky (UST)	State Program	4	58	06-30-15
Kentucky (WW)	State Program	4	98016	12-31-15
L-A-B	DoD ELAP		L2315	07-18-16
Minnesota	NELAP	5	039-999-348	12-31-15
Nevada	State Program	9	OH-000482008A	07-31-15
New Jersey	NELAP	2	OH001	06-30-15
New York	NELAP	2	10975	03-31-15 *
Ohio VAP	State Program	5	CL0024	10-31-15
Pennsylvania	NELAP	3	68-00340	08-31-15
Texas	NELAP	6		08-31-15
USDA	Federal		P330-13-00319	11-26-16
Virginia	NELAP	3	460175	09-14-15
Washington	State Program	10	C971	01-12-16
West Virginia DEP	State Program	3	210	12-31-15
Wisconsin	State Program	5	999518190	08-31-15

### Laboratory: TestAmerica Corpus Christi

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704210	03-31-15

### Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

\* Certification renewal pending - certification considered valid.

## Certification Summary

Client: CB&I Federal Services LLC

TestAmerica Job ID: 600-105998-1

Project/Site: CB&I Federal Services LLC . .– Houston

### Laboratory: TestAmerica Nashville (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Texas	NELAP	6	T104704077	08-31-15

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
6010B	3051A	Waste	Sulfur

### Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-15
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-15
Florida	NELAP	4	E81010	06-30-15
Georgia	State Program	4	N/A	06-30-15
Illinois	NELAP	5	200041	10-09-15
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	03-31-15
Kentucky (UST)	State Program	4	53	06-30-15
Kentucky (WV)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-15
Maryland	State Program	3	233	09-30-15
Michigan	State Program	5	9912	06-30-15
New Jersey	NELAP	2	FL006	06-30-15
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-15
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15
Tennessee	State Program	4	TN02907	06-30-15
Texas	NELAP	6	T104704286-12-5	09-30-15
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-15
West Virginia DEP	State Program	3	136	06-30-15



## Sample Receipt Checklist

JOB NUMBER

Loc: 600  
105998

## UNPACKED

Date/Time Received:

**CLIENT:**

**CARRIER/DRIVER:**

Custody Seal Present:

YES       NO

**Number of Coolers Received:**

Refrigerator ID	Temp Blank	Trip Blank	Observed Temp (°C)	Therm ID	Therm CF	Corrected Temp (°C)
PWU	Y / N	Y / N	2.1	SGA	-0.3	1.8
	Y / N	Y / N				
	K / N	Y / N				
	Y / N	Y / N				
	Y / N	N				
	Y / N	N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				
	Y / N	Y / N				

CF = correction factor

Samples received on ice?  YES  NO

LABORATORY PRESERVATION OF SAMPLES REQUIRED:  NO  YES

Base samples are >pH 12?  YES  NO Acid samples are <pH 2?  YES  NO

pH paper Lot #

VOA headspace acceptable (5-6mm):  YES  NO  NA

Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?

YES  NO

**COMMENTS:**

## Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-105998-1

**Login Number: 105998**

**List Source: TestAmerica Houston**

**List Number: 1**

**Creator: Capps, Dana R**

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.	6
The cooler's custody seal, if present, is intact.	True		7
Sample custody seals, if present, are intact.	True		8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	True		10
Cooler Temperature is acceptable.	True		11
Cooler Temperature is recorded.	True	1.8	12
COC is present.	True		13
COC is filled out in ink and legible.	True		14
COC is filled out with all pertinent information.	True		
Is the Field Sampler's name present on COC?	True		
There are no discrepancies between the containers received and the COC.	True		
Samples are received within Holding Time.	True		
Sample containers have legible labels.	True		
Containers are not broken or leaking.	True		
Sample collection date/times are provided.	True		
Appropriate sample containers are used.	True		
Sample bottles are completely filled.	True		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A	Check done at department level as required.	

## Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-105998-1

**Login Number:** 105998

**List Source:** TestAmerica Corpus Christi

**List Number:** 4

**List Creation:** 02/04/15 03:19 PM

**Creator:** Rood, Vivian R

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	Obs. 1.5°C Cr. 1.0°C IR4
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-105998-1

**Login Number:** 105998

**List Source:** TestAmerica Nashville

**List Number:** 3

**List Creation:** 02/03/15 11:34 AM

**Creator:** Armstrong, Daniel

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.3C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

## Login Sample Receipt Checklist

Client: CB&I Federal Services LLC

Job Number: 600-105998-1

**Login Number: 105998**

**List Source: TestAmerica Pensacola**

**List Number: 5**

**List Creation: 02/05/15 09:54 AM**

**Creator: Crawford, Lauren E**

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0°C IR-2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	